INDEX

Volume 9, 1967

Soviet Physics – Solid State

INDEX

Volume 9, 1967

Soviet Physics – Solid State

AUTHOR INDEX

SOVIET PHYSICS – SOLID STATE
Volume 9, 1967
A translation of Fizika Tverdogo Tela

ABARENKOV, I. V.
Calculation of the Binding Energy of Ionic Crystals Using a Model Potential. (T) Yu. A. Logachev and I. V. Abarenkov. 9, 6 (1967) [9, 10 (1967)]

ABDRASHITOVA, É. I.
EPR of Mn^{2+} in Borate and Silicate Glasses. (E) É. I. Abdrashitova and N. R. Yafaev. 9, 2500 (1968) [9, 3172 (1967)]

ABDULSABIROV, R. Yu.
Electron Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) R. Yu. Abdulsabirov, V. M. Vinokurov, M. M. Zaripov, and V. G. Stepanov. 9, 541 (1967) [9, 689 (1967)]

ABRAMOV, A. P.
Interaction of Excitons in Anthracene. (E) N. A. Tolstoi and A. P. Abramov. 9, 255 (1967) [9, 340 (1967)]
Migration of Excitons in Uranyl Salts. (E) A. P. Abramov, I. N. Abramova, and N. A. Tolstoi. 9, 1516 (1968) [9, 1923 (1967)]
Nonlinear Dependence of the Luminescence of Cuprous Oxide on the Photoexcitation Intensity. (E) N. A. Tolstoi and A. P. Abramov. 9, 2630 (1968) [9, 3340 (1967)]

ABRAMOVA, I. N.
Migration of Excitons in Uranyl Salts. (E) A. P. Abramov, I. N. Abramova, and N. A. Tolstoi. 9, 1516 (1968) [9, 1923 (1967)]

ABROYAN, I. A.
Temperature Dependence of the Emission of Electrons by Ion Bombardment of Alkali-Halide Single Crystals. (E) I. A. Abroyan, I. S. Aref'eva, and V. P. Lavrov. 9, 516 (1967) [9, 667 (1967)]
Angular Dependence of the Radiation-Induced Conductivity and Secondary Emission Due to Bombardment of a Ge Single Crystal with Electrons. (E) I. A. Abroyan and A. I. Titov. 9, 2860 (1968) [9, 3628 (1967)]

ADIROVICH, É. I.
Determination of the Work Function and Blackbody Coefficient of Boron and Silicon by the Intrinsic Thermometer Method. (E) É. I. Adirovich and L. M. Gol'dshtein. 9, 984 (1967) [9, 1258 (1967)]

AGAEV, A. I.
Absorption of Ultrasound by Dislocations in Deformed KCl Crystals. (E) Kh. M. Khalilov and A. I. Agaev. 9, 2143 (1968) [9, 2729 (1967)]

AGAPOVA, N. N.
Magnetocrystalline Anisotropy of Hexagonal Ferrite Single Crystals of the System $Ba_2Co_xZn_{2-x}Fe_{12}O_{22}$. (E) N. N. Agapova and T. M. Perekalina. 9, 1825 (1968) [9, 2330 (1967)]

AGEEV, A. N.
Ferromagnetic Resonance in Calcium-Bismuth-Vanadium-Gallium Garnet. (E) A. N. Ageev and O. B. Proskuryakov. 9, 2858 (1968) [9, 3626 (1967)]

AGEEV, L. A.
Investigation of the Kinetics of Growth of an Oxide Film on the Surface of Indium. (E) L. A. Ageev and I. N. Shklyarevskii. 9, 2324 (1968) [9, 2958 (1967)]

AGRANOVICH, V. M.
Radiation Annealing of Seeger's Depletion Zone. (T) V. M. Agranovich and É. Ya. Mikhlin. 9, 851 (1967) [9, 1089 (1967)]

AKATOVA, I. A.
High-Voltage Photo-emf Effect in Amorphous Films of Sb_2S_3. (E) I. A. Karpovich, M. V. Shilova, and K. N. Akatova. 9, 2377 (1968) [9, 3014 (1967)]

AKHIEZER, I. A.
Simple and Single Spin Waves in Ferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 9, 1798 (1968) [9, 2295 (1967)]
The Fluctuations and Scattering Processes of Slow Neutrons and Light in Antiferromagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and Yu. L. Bolotin. 9, 2016 (1968) [9, 2559 (1967)]

AKHVLEDIANI, I. G.
Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR Lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1968) [9, 1403 (1967)]

AKKERMAN, A. F.
Calculation of the Energy Distribution of Electrons Transmitted through Thin Films of Matter. (T/E) A. F. Akkerman, Yu. A. Andreev, and Yu. G. Lyutov. 9, 599 (1967) [9, 766 (1967)]

AKULENOK, E. M.
Relationship between the Damage of Ruby Crystals during Laser Emission and the Optical Homogeneity. (E) E. M. Akulenok, V. S. Papkov, and V. Ya. Khaimov-Mal'kov. 9, 1627 (1968) [9, 2075 (1967)]

ALEKSANDROV, I. V.
Spin-Lattice Relaxation in Kramers Systems. (T/E) I. V. Aleksandrov and K. K. Pukhov. 9, 906 (1967) [9, 1159 (1967)]

ALEKSANDROV, K. S.
Calculation of the Characteristic Temperature of Organic Crystals from Elastic Constants. (E) K. S. Aleksandrov, V. F. Teslenko, and B. D. Koreshkov. 9, 579 (1967) [9, 739 (1967)]

ALEKSANDROV, L. N.
Paramagnetic Resonance of Conduction Electrons in Silicon–Germanium Alloys. (E) I. G. Gverdtsiteli, L. N. Aleksandrov, and V. V. Bolko. 9, 1328 (1967) [9, 1690 (1967)]

ALEKSANDROVA, E. M.
A New Method for the Electrical Decoration of the Surface of Solids. (E) G. I. Distler, T. Yu. Ts'ung-hsing, and E. M. Aleksandrova. 9, 2364 (1968) [9, 3000 (1967)]

ALEKSEEV, A. I.
Polarization of the Radiation from a Ruby Laser. (T/E) A. I. Alekseev and Yu. P. Nikitin. 9, 1024 (1967) [9, 1309 (1967)]

ALFEROV, Zh. I.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

ALIEV, M. N.
A Contribution to the Theory of the Shape of the Acoustomagnetic Resonance Line. (T) M. N. Aliev. 9, 1020 (1967) [9, 1304 (1967)]

ALIEV, S. A.
Quantum Oscillations of Transport Coefficients of Mercury Selenide. (E) M. S. Bresler, S. A. Aliev, and S. S. Shalyt. 9, 2159 (1968) [9, 2746 (1967)]

AL'T, L. Ya.
Paramagnetic Centers in Silicon Powders. (E) N. A. Meshcheryakov, L. Ya. Al't, and V. F. Anufrienko. 9, 2667 (1968) [9, 3379 (1967)]

AL'TSHULER, L. V.
Explosive Deformation of Single Crystals. (E) L. V. Al'tshuler, M. I. Brazhnik, V. N. German, and L. I. Mirkin. 9, 2417 (1968) [9, 3063 (1967)]

AL'TSHULER, S. A.
Effect of the Exchange Interaction on Spin-Lattice Relaxation in Paramagnetic Ionic Crystals. (T) S. A. Al'tshuler and V. A. Skrebnev. 9, 379 (1967) [9, 498 (1967)]

AL'TSHULER, T. S.
Hyperfine Structure of EPR Spectra of Rare-Earth Ions in Glasses. (E/T) T. S. Al'tshuler. 9, 1623 (1968) [9, 2070 (1967)]

AL'TSHULLER, V. M.
Detection of Precipitates in Silicon Following Boron Diffusion. (E) V. M. Al'tshuller and V. I. Pil'don. 9, 648 (1967) [9, 830 (1967)]

AMIN, M.
Specific Heat and Permittivity of a Potassium Dideuterophosphate Crystal in the Vicinity of the Ferroelectric Curie Point. (E) B. A. Strukov, M. Amin, and A. S. Sonin. 9, 1894 (1968) [9, 2421 (1967)]

AMINOV, L. K.
Jahn-Teller Effect in the Ground State of the V^{3+} Ion in Fluorite Taking Covalency into Account. (T) L. K. Aminov and B. Z. Malkin. 9, 1030 (1967) [9, 1316 (1967)]

AMITIN, E. B.
Hall Effect and Electrical Resistivity of Vanadium at 20-300°K. (E) E. B. Amitin, Yu. A. Kovalevskaya, and Yu. Z. Kovdrya. 9, 704 (1967) [9, 905 (1967)]
Electrical Resistance of Chromium near the Néel Point. (E) E. B. Amitin and Yu. A. Kovalevskaya. 9, 2145 (1968) [9, 2731 (1967)]

AMMER, S. A.
Recovery of Plastically Deformed Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 167 (1967) [9, 227 (1967)]
High-Temperature Internal Friction of Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 1218 (1967) [9, 1547 (1967)]

ANASHKINA, T. N.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

ANDREEV, A. A.
Parameters of a Model of Two Valence Bands for SnTe from Measurements of the Hall Effect at High Temperatures. (E) A. A. Andreev. 9, 1232 (1967) [9, 1560 (1967)]

ANDREEV, G. A.
Distribution of Divalent Impurities in the Crystallization of KCl from the Melt. (E) G. A. Andreev and S. F. Bureiko. 9, 58 (1967) [9, 79 (1967)]
Interaction of Impurities in a NaCl Melt. (E) G. A. Andreev. 9, 61 (1967) [9, 83 (1967)]
Vacancy Concentration Variation in KBr Crystals during Electrolytic Coloration. (E) G. A. Andreev, G. B. Semushkin, and A. N. Tsikin. 9, 2564 (1968) [9, 3257 (1967)]

ANDREEV, Yu. A.
Calculation of the Energy Distribution of Electrons Transmitted through Thin Films of Matter. (T/E) A. F. Akkerman, Yu. A. Andreev, and Yu. G. Lyutov. 9, 599 (1967) [9, 766 (1967)]

ANSEL'M, A. I.
Quantum Theory of the Nernst-Ettingshausen Effect in Semiconductors. (T) A. I. Ansel'm and B. M. Askerov. 9, 22 (1967) [9, 31 (1967)]

ANTIPIN, A. A.
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Erbium and Ytterbium. (E) A. A. Antipin, Z. N. Zonn, V. A. Ioffe, A. N. Katyshev, and L. Ya. Shekun. 9, 521 (1967) [9, 671 (1967)]
Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]
Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]
Spin Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]

ANTOKOL'SKII, G. L.
Ultrasonic Excitation of Magnetic Dipole Transitions of F^{19} Nuclei in LiF Single Crystals. (E) V. A. Shutilov and G. L. Antokol'skii. 9, 958 (1967) [9, 1231 (1967)]

ANTONOV, P. I.
Temperature Dependence of the Elastic Modulus of RbI Crystals. (E) P. I. Antonov, B. K. Kardashev, and S. P. Nikanorov. 9, 527 (1967) [9, 676 (1967)]

ANUFRIENKO, V. F.
Paramagnetic Centers in Silicon Powders. (E) N. A. Meshcheryakov, L. Ya. Al't, and V. F. Anufrienko. 9, 2667 (1968) [9, 3379 (1967)]

AREF'EVA, I. S.
Temperature Dependence of the Emission of Electrons by Ion Bombardment of Alkali-Halide Single Crystals. (E) I. A. Abroyan, I. S. Aref'eva, and V. P. Lavrov. 9, 516 (1967) [9, 667 (1967)]

ARKHANGEL'SKAYA, V. A.
Conductivity of Pure Calcium, Strontium, and Barium Fluorides. (E) V. A. Arkhangel'skaya, B. G. Mikheev, T. I. Nikitinskaya, and M. S. Tyutin. 9, 539 (1967) [9, 687 (1967)]
Radiochemical Reduction of MeF_2–RE^{3+} Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 9, 2774 (1968) [9, 3523 (1967)]

ARONOV, A. G.
Galvanomagnetic Effects in Semiconductors Having Toroidal Isoenergetic Surfaces. (T) A. G. Aronov and P. Kh. Mussev. 9, 1790 (1968) [9, 2284 (1967)]

ARSEN'EVA-GEIL', A. N.
Photoemission from Additively Colored KCl Crystals. (E) A. N. Arsen'eva-Geil', A. D. Kashkai, and B. A. Kazenov. 9, 995 (1967) [9, 1269 (1967)]

ARSENT'EVA, I. P.
The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Rozhanskii. 9, 2448 (1968) [9, 3104 (1967)]

ASADULLIN, Ya. Ya.
Theory of Cyclotron Echo. (T) Ya. Ya. Asadullin and U. Kh. Kopvillem. 9, 2150 (1968) [9, 2737 (1967)]

ASHIN, S. G.
Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Ashin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]

ASHKINADZE, B. M.
Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 478 (1967)]
Two-Photon Conductivity in CdS Excited with Giant Pulses from Ruby Laser. (E) B. M. Ashkinadze, A. A. Grinberg, S. M. Ryvkin, and I. D. Yaroshetskii. 9, 461 (1967) [9, 601 (1967)]

ASKEROV, B. M.
Quantum Theory of the Nernst-Ettingshausen Effect in Semiconductors. (T) A. I. Ansel'm and B. M. Askerov. 9, 22 (1967) [9, 31 (1967)]

ATROSHCHENKO, L. V.
Thermodynamic Model for Dissolution of Impurities and Deviations from Stoichiometry in Crystals Having Stoichiometric Vacancies. (T) V. M. Koshkin, Yu. A. Freiman, and L. V. Atroshchenko. 9, 2460 (1968) [9, 3120 (1967)]

ATSARKIN, V. A.
EPR, Spin-Lattice Relaxation, and Optical Absorption in Magnesium Tungstate Containing Cobalt Impurity. (E) V. A. Atsarkin, S. K. Morshnev, and L. I. Potkin. 9, 660 (1967) [9, 846 (1967)]
Heating of the Crystal Lattice during Paramagnetic Relaxation in Gadolinium Hexaantipyrinate. (E) V. A. Atsarkin and R. N. Shchelokov. 9, 1766 (1968) [9, 2252 (1967)]

Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) V. A. Atsarkin and A. V. Frantsesson. 9, 2644 (1968) [9, 3352 (1967)]

EPR of Trivalent Chromium in $YAl_3(BO_3)_4$ Crystals. (E) V. A. Atsarkin, V. B. Kravchenko, and I. G. Matveeva. 9, 2646 (1968) [9, 3353 (1967)]

AUGST, G. R.

Effect of Force Constant Changes on the Properties of Crystals Containing Impurity Atoms. (T) A. P. Zhernov and G. R. Augst. 9, 1724 (1968) [9, 2196 (1967)]

AVDEENKO, B. K.

Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Makarov. 9, 828 (1967) [9, 1058 (1967)]

AVERKIN, A. A.

Influence of Hydrostatic Pressure on the Electrical Properties of Single Crystals of the Solid Solution 0.85PbTe + 0.15PbS. (E) S. Kasimov, A. A. Averkin, and A. R. Regel'. 9, 99 (1967) [9, 134 (1967)]

AVER'YANOV, I. S.

Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Aver'yanov. 9, 1899 (1968) [9, 2426 (1967)]

AVGUSTINNIK, A. I.

Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinnik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1967) [9, 1557 (1967)]

AZARKH, Z. M.

Change in Electrical Resistivity in the α-Phase of Scandium Hydride. (E) Z. M. Azarkh, V. N. Funin, and N. D. Yur'eva. 9, 1066 (1967) [9, 1364 (1967)]

BABUSHKIN, V. S.

Ferro- and Paramagnetic Resonance of Divalent Europium Oxides. (E/T) A. A. Samokhvalov, V. S. Babushkin, and V. G. Bamburov. 9, 1239 (1967) [9, 1573 (1967)]

BAGROV, N. N.

Electron-Diffraction Investigation of the Structure of Thin Solid Argon Films. (E) S. I. Kovalenko and N. N. Bagrov. 9, 2396 (1968) [9, 3032 (1967)]

BAIBAKOV, V. I.

Acoustical Noise in CdSe. (E) V. I. Baibakov. 9, 1654 (1968) [9, 2109 (1967)]

Oscillations of the Current in Piezoelectric Semiconductors. (E) V. I. Baibakov and G. S. Pado. 9, 1678 (1968) [9, 2135 (1967)]

Amplification of Longitudinal Acoustic Waves in CdS. (E) G. S. Pado and V. I. Baibakov. 9, 2373 (1968) [9, 3010 (1967)]

BAIKOVA, L. G.

Nature of the Damage of High-Strength Glass and Possibilities of Protecting Glass. (E) L. G. Baikova, F. F. Vitman, T. G. Dmitrieva, and V. P. Pukh. 9, 365 (1967) [9, 480 (1967)]

Influence of Heat Treatment on the High-Strength State of Glass. (E) L. G. Baikova, F. F. Vitman, and V. P. Pukh. 9, 1716 (1968) [9, 2185 (1967)]

BAKH, N. A.

Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Ashin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]

BAKIROV, M. Ya.

Local Levels in a Hexagonal Selenium Single Crystal. (E) M. Ya. Bakirov and N. Z. Dzhalilov. 9, 968 (1967) [9, 1244 (1967)]

BAKRADZE, R. V.

Concentration Quenching of Erbium Luminescence in Yttrium-Aluminum Garnet. (E) R. V. Bakradze, G. M. Zverev, G. Ya. Kolodnyi, G. P. Kuznetsova, and A. M. Onishchenko. 9, 733 (1967) [9, 939 (1967)]

BALABANOV, A. E.

Magnetic Fields of the Nuclei of Sn^{119} Impurity Atoms in Ferromagnetic Materials. (E) A. E. Balabanov and N. N. Delyagin. 9, 1498 (1968) [9, 1899 (1967)]

BALKASHIN, O. P.

Isomer Shifts of Impurity Sn^{119} Nuclei in Some Semiconducting Compounds. (E) V. V. Chekin, A. P. Vinnikov, and O. P. Balkashin. 9, 2354 (1968) [9, 2992 (1967)]

BAMBUROV, V. G.

Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]

Ferro- and Paramagnetic Resonance of Divalent Europium Oxides. (E/T) A. A. Samokhvalov, V. S. Babushkin, and V. G. Bamburov. 9, 1239 (1967) [9, 1573 (1967)]

Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]

BAPTIZMANSKII, V. V.

EPR Studies of Rupture Points in Mechanically Stressed Polyamide Macromolecules. (E/T) V. A. Zakrevskii, É. E. Tomashevskii, and V. V. Baptizmanskii. 9, 1118 (1967) [9, 1434 (1967)]

BARAMIDZE, G. A.

Modulation of the Charge Density of a Beam Resulting from Interaction with a Plasma in a Solid. (T) G. A. Baramidze and M. G. Pkhakadze. 9, 293 (1967) [9, 382 (1967)]

BAR'YAKHTAR, V. G.

Magnetoelastic Interaction in Antiferromagnets. (T) V. G. Bar'yakhtar and V. V. Gann. 9, 1611 (1968) [9, 2052 (1967)]

Magnetic Dipole Radiation of a Magnet. (T) V. G. Bar'yakhtar and A. G. Kvirikadze. 9, 2569 (1968) [9, 3264 (1967)]

BARYSHEV, N. S.

Splitting of the Ground Level of Double Acceptors in Semiconductors. (T) N. S. Baryshev, B. I. Beglov, and K. Ya. Shtivel'man. 9, 1463 (1967) [9, 1854 (1967)]

BASHKIROV, Sh. Sh.

Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]

Effect of the Exchange Interaction of Magnetic Ions on the Intensities of Mössbauer Spectra. (T) Sh. Sh. Bashkirov and G. Ya. Selyutin. 9, 2284 (1968) [9, 2904 (1967)]

BASOV, N. G.

GaAs Semiconductor Laser Optically Excited by Radiation Having Energy Close to the Forbidden-Band Width. (E/T) N. G. Basov, A. Z. Grasyuk, V. F. Efimkov, and V. A. Katulin. 9, 65 (1967) [9, 88 (1967)]

BASS, F. G.

Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2742 (1968) [9, 3479 (1967)]

BAZHENOV, V. K.

Paramagnetic Resonance of Shallow Acceptors in Gallium Arsenide. (E) S. P. Fedotov, V. A. Presnov, and V. K. Bazhenov. 9, 2620 (1968) [9, 3332 (1967)]

BEDA, A. G.

Measurement of the Piezoelectric Moduli of Quartz and Lead Zirconate-Titanate Ceramic at Low Temperatures. (E) A. G. Beda. 9, 1043 (1967) [9, 1332 (1967)]

BEGLOV, B. I.

Splitting of the Ground Level of Double Acceptors in Semiconductors. (T) N. S. Baryshev, B. I. Beglov, and K. Ya. Shtivel'man. 9, 1463 (1967) [9, 1854 (1967)]

BEILIN, V. M.

Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Beilin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Podd'yakov. 9, 1467 (1968) [9, 1861 (1967)]

BELEN'KII, G. L.

Determination of the Radiative Yield of the Electron Capture by Sensitizing Recombination Centers in CdSe. (E) G. L. Belen'kii, I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2626 (1968) [9, 3337 (1967)]

BELITSKII, A. V.
Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ursulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]

BELOV, K. P.
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]

BELOZEROV, V. V.
An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 586 (1967) [9, 751 (1967)]

BELOZERSKII, G. N.
Study of Nuclear γ-Resonance after α-Decay. (E) G. N. Belozerskii, Yu. A. Nemilov, A. A. Chaikhorskii, and A. V. Shvedchikov. 9, 978 (1967) [9, 1252 (1967)]

BELYATSKAS, R. P.
Thermal Hysteresis of the Phase Transformation in SbSI. (E) V. P. Grigas, I. P. Grigas, and R. P. Belyatskas. 9, 1203 (1967) [9, 1532 (1967)]

BEREZHKOVA, G. V.
Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Berezhkova. 9, 783 (1967) [9, 997 (1967)]
Electric Domains in Corundum Plates and the Electric Effects Related to Formation of Laminar Filamentary Crystals. (E/T) V. N. Rozhanskii and G. V. Berezhkova. 9, 2465 (1968) [9, 3126 (1967)]

BEREZIN, A. A.
Theory of the Photoionization of F' Color Centers. (T) A. A. Berezin. 9, 2170 (1968) [9, 2756 (1967)]

BERKOVSKII, B. P.
Exchange Interactions of Cr^{3+} Ions in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 9, 1663 (1968) [9, 2119 (1967)]
Electron Paramagnetic Resonance of Cr^{3+} in $LaAlO_3$ Single Crystals. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Lushkov. 9, 2871 (1968) [9, 3639 (1967)]

BERSHTEIN, V. A.
Importance of Waterproofing Glass for Its High-Strength State. (E/T) V. A. Bershtein and F. F. Vitman. 9, 1272 (1967) [9, 1618 (1967)]

BERSUKER, I. B.
The Interband Interaction and Spontaneous Polarization of a Crystal Lattice. (T) I. B. Bersuker and B. G. Vekhter. 9, 2084 (1968) [9, 2652 (1967)]

BERZINA, I. G.
Anisotropy of the Orientation of the Tracks of Uranium Fission Fragments in LiF Single Crystals. (E) Ya. E. Geguzin, I. G. Berzina, and I. V. Vorob'eva. 9, 2642 (1968) [9, 3350 (1967)]

BEZUGLI, P. A.
Velocity of Longitudinal and Transverse Ultrasonic Waves in Polycrystalline Normal Hydrogen. (E/T) P. A. Bezuglyi and R. Kh. Minyafaev. 9, 480 (1967) [9, 624 (1967)]
Velocity of Sound and Elastic Properties of Normal Polycrystalline Deuterium. (E) P. A. Bezuglyi and R. Kh. Minyafaev. 9, 2854 (1968) [9, 3622 (1967)]

BICHURIN, M. I.
Pseudo-Stark Splitting of Cr^{3+} EPR Line in $CdWO_4$. (T/E) M. I. Bichurin, E. S. Kovalenko, and V. G. Kozlov. 9, 1187 (1967) [9, 1518 (1967)]

BIR, G. L.
Combination Resonance of Holes in Ge and Si Type Semiconductors. (T) G. L. Bir, E. I. Butikov, and G. E. Pikus. 9, 835 (1967) [9, 1068 (1967)]

BLINOV, L. M.
Carrier Density in a Semiconductor Illuminated with a Laser. (E) L. M. Blinov, V. S. Vavilov, and G. N. Galkin. 9, 666 (1967) [9, 854 (1967)]
Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]

BLISTANOV, A. A.
Influence of an Electric Field on the Temperature Dependence of the Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, O. L. Mikhailova, Ya. M. Solfer, and M. P. Shaskol'skaya. 9, 531 (1967) [9, 679 (1967)]
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Solfer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]

BLOKHIN, S. M.
Study of X-Ray K Spectra of Titanium in Its Nitride and Carbide. (E) V. I. Chirkov, S. M. Blokhin, and É. E. Vainshtein. 9, 873 (1967) [9, 1116 (1967)]

BOBONETS, I. I.
Interaction of Point Defects with Dislocations in High-Purity Quenched Aluminum. (E) I. A. Gindin, I. M. Neklyudov, and I. I. Bobonets. 9, 2333 (1968) [9, 2969 (1967)]

BOBROVA, E. A.
Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]

BOBROVNIKOV, Yu. A.
Splitting of the Energy Levels of the Er^{3+} Ion in the Crystal Field of Strontium Molybdate. (E) Yu. A. Bobrovnikov, G. M. Zverev, and A. I. Smirnov. 9, 1403 (1967) [9, 1794 (1967)]

BOCHKOV, V. S.
Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2742 (1968) [9, 3479 (1967)]

BOGDANOV, R. V.
Photochemical Transformations of Radiophosphorus in Single Crystals of Potassium Chloride. (E) R. V. Bogdanov and A. N. Murin. 9, 180 (1967) [9, 243 (1967)]

BOGDANOV, V. L.
Experimental Determination of the Relationship between the Intracrystalline Electric Field Gradient at the Nucleus and the Elastic Deformation of the Lattice in the Cubic Crystals NaF, NaCl, and KCl. (E) V. L. Bogdanov and V. V. Lemanov. 9, 357 (1967) [9, 469 (1967)]
Electric Field Gradient at In^{115} and Sb^{121} Nuclei in an Elastically Deformed Crystal of InSb. (E) V. L. Bogdanov and V. V. Lemanov. 9, 720 (1967) [9, 928 (1967)]

BOGOMOLOV, A. A.
Polarization Discontinuities in Ferroelectric SbSI Caused by Illumination. (E) V. M. Rudyak and A. A. Bogomolov. 9, 2624 (1968) [9, 3336 (1967)]

BOGOMOLOV, V. N.
Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]
Polaron Nature of the Current Carriers in Rutile (TiO_2). (T) V. N. Bogomolov, E. K. Kudinov, and Yu. A. Firsov. 9, 2502 (1968) [9, 3175 (1967)]
Electric Paramagnetic Resonance of Partially Reduced Rutile. (E) V. N. Bogomolov and L. S. Sochava. 9, 2647 (1968) [9, 3355 (1967)]

BOGORODITSKII, N. P.
Electrical Properties of Rutile Containing Dissolved Niobium. (E) N. P. Bogoroditskii, V. Kristya, and Ya. I. Panova. 9, 187 (1967) [9, 253 (1967)]
Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]

BOIKO, B. T.
A Diffractometer Investigation of the Structure of Amorphous Gallium Using Electron Diffraction with a Retarding Field. (E) B. T. Boiko, L. S. Palatnik, and A. S. Derevyanchenko. 9, 1278 (1967) [9, 1625 (1967)]

BOIKO, I. I.
The Pinch Effect in Intrinsic Semiconductors. (T) I. I. Boiko. 9, 2303 (1968) [9, 2929 (1967)]

BOIKO, V. S.
Friction Forces and Surface Tension of Twinning Dislocations. (E/T) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 9, 332 (1967) [9, 435 (1967)]

BOIKO, V. V.
Paramagnetic Resonance of Conduction Electrons in Silicon–Germanium Alloys. (E) I. G. Gverdtsiteli, L. N. Aleksandrov, and V. V. Boiko. 9, 1328 (1967) [9, 1690 (1967)]

BOIKO, Yu. L.
Frenkel' Effect in the Mutual Diffusion in Alkali-Halide Single Crystals (KCl–KBr System). (E) Ya. E. Geguzin and Yu. L. Boiko. 9, 1074 (1967) [9, 1375 (1967)]

BOKIN, N. M.
Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]

BOKOV, V. A.
Phase Diagram of a System of Solid Solutions $BiMnO_3$–$PbTiO_3$ Having Perovskite-Type Structure. (E) V. A. Bokov, N. A. Grigoryan, and M. F. Bryzhina. 9, 262 (1967) [9, 347 (1967)]
Reversal of Magnetic Sublattices in Yttrium Orthoferrite. (E) A. T. Starovoitov and V. A. Bokov. 9, 2869 (1968) [9, 3637 (1967)]

BOKSHTEIN, S. Z.
Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. (E) S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov. 9, 1488 (1968) [9, 1887 (1967)]

BOLOTIN, Yu. L.
The Fluctuations and Scattering Processes of Slow Neutrons and Light in Antiferromagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and Yu. L. Bolotin. 9, 2016 (1968) [9, 2559 (1967)]

BOL'SHUTKIN, D. N.
Creep of Solid Ammonia. (E) A. I. Prokhvatilov, T. V. Sil'vestrova, and D. N. Bol'shutkin. 9, 546 (1967) [9, 693 (1967)]
Mechanical Properties of Solid Para-Hydrogen at 4.2°K. (E) D. N. Bol'shutkin, Yu. E. Stetsenko, and Z. N. Linnik. 9, 1952 (1968) [9, 2482 (1967)]

BONCH-BRUEVICH, A. M.
Voltage Dependence of the Electroluminescence Brightness. (E) A. M. Bonch-Bruevich and A. V. Burlakov. 9, 1446 (1967) [9, 1838 (1967)]
Experimental Investigation of the Optical Properties and of the Nonlinear Absorption Mechanism of Glass Containing Cadmium Selenide. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 9, 1776 (1968) [9, 2365 (1967)]
Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 2769 (1968) [9, 3516 (1967)]

BONCH-BRUEVICH, V. L.
Comment on the Paper "Motion of Electrical Domains in Semiconductors Containing Hot Electrons." (R) V. L. Bonch-Bruevich. 9, 270 (1967) [9, 355 (1967)]

BOROVIK, A. E.
Simple and Single Spin Waves in Ferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 9, 1798 (1968) [9, 2295 (1967)]

BORSENKO, A. V.
Dislocation Structure of LiF Crystals Deformed under Constant Stresses. (E/T) B. I. Smirnov and A. V. Borsenko. 9, 1377 (1967) [9, 1755 (1967)]

BOYARSKAYA, Yu. S.
Effect of X-Ray Irradiation on Prehardened Regions of NaCl Single Crystals. (E) Yu. S. Boyarskaya and R. P. Zhitaru. 9, 1672 (1968) [9, 2129 (1967)]

BRAZHNIK, M. I.
Explosive Deformation of Single Crystals. (E) L. V. Al'tshuler, M. I. Brazhnik, V. N. German, and L. I. Mirkin. 9, 2417 (1968) [9, 3063 (1967)]

BREDOV, M. M.
Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]

BRESLER, M. S.
Quantum Oscillations of the Photomagnetic Effect in n-Type InAs. (E) M. S. Bresler, A. V. Matveenko, and I. I. Farbshtein. 9, 1924 (1968) [9, 2448 (1967)]
Quantum Oscillations of Transport Coefficients of Mercury Selenide. (E) M. S. Bresler, S. A. Aliev, and S. S. Shalyt. 9, 2159 (1968) [9, 2748 (1967)]

BRODIN, M. S.
Luminescence of Mixed ZnS_x–CdS_{1-x} Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. V. Zakrevskii, and V. Ya. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]

BRONSHTEIN, I. M.
Inelastic Scattering of 0.2–0.8 keV Electrons Incident at Large Angles on Beryllium and Lead. (E) I. M. Bronshtein and V. A. Dolinin. 9, 535 (1967) [9, 683 (1967)]
Secondary Electron Emission of Aluminum and Nickel for Obliquely Incident Primary Electrons. (E) I. M. Bronshtein and S. S. Denisov. 9, 731 (1967) [9, 938 (1967)]
The Secondary Electron Emission (SEE) of Solids at Large Angles of Incidence of the Primary Beam. (E) I. M. Bronshtein and V. A. Dolinin. 9, 2133 (1968) [9, 2718 (1967)]

BROVMAN, E. G.
Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) Sh. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1586 (1968) [9, 1991 (1967)]

BRYSKIN, V. V.
Longitudinal Magnetoresistance for Scattering by Optical Phonons. (T) V. V. Bryksin. 9, 171 (1967) [9, 232 (1967)]

BRYUKHANOV, A. E.
Polymorphic Transitions Caused by Crushing of Zinc Sulfide Phosphor Crystals and the Influence of These Transitions on Luminescence Properties. (E) E. A. Poplavskaya, G. G. Kharin, and A. E. Bryukhanov. 9, 2767 (1968) [9, 3501 (1967)]

BRYUKHANOV, V. A.
The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Peryshkin, E. I. Rzhekhina, and V. S. Shpinel'. 9, 1189 (1967) [9, 1519 (1967)]

BRYZHINA, M. F.
Phase Diagram of a System of Solid Solutions $BiMnO_3$–$PbTiO_3$ Having Perovskite-Type Structure. (E) V. A. Bokov, N. A. Grigoryan, and M. F. Bryzhina. 9, 262 (1967) [9, 347 (1967)]

BUGAI, A. A.
Electrical Effects in the EPR of Cu^{2+} in $CdWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 1926 (1968) [9, 2450 (1967)]

BUISHVILI, L. L.
Theory of Spin-Lattice Relaxation of Impurity Centers. (T) L. L. Buishvili and M. D. Zviadadze. 9, 1549 (1968) [9, 1969 (1967)]
A Method for Constructing the Nonequilibrium Density Matrix in the Presence of an External Alternating Field. (T) L. L. Buishvili. 9, 1695 (1968) [9, 2157 (1967)]

BULAEVSKII, L. N.
Insulator–Metal Phase Transitions in Antiferromagnets. (T) L. N. Bulaevskii and D. I. Khomskii. 9, 2422 (1968) [9, 3070 (1967)]

BUREIKO, S. F.
Distribution of Divalent Impurities in the Crystallization of KCl from the Melt. (E) G. A. Andreev and S. F. Bureiko. 9, 58 (1967) [9, 79 (1967)]

BURKHANOV, A. M.
Investigation of the Moduli of Elasticity and Compressibility of Europium in the Temperature Range 70–295°K. (E) A. M. Burkhanov, N. P. Grazhdankina, and I. G. Fakidov. 9, 586 (1967) [9, 748 (1967)]

BURLAKOV, A. V.
Voltage Dependence of the Electroluminescence Brightness. (E) A. M. Bonch-Bruevich and A. V. Burlakov. 9, 1446 (1967) [9, 1838 (1967)]
Investigation of Transport Effects in Electrophotoluminescence. (E) A. V. Burlakov. 9, 1449 (1967) [9, 1840 (1967)]
Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 2769 (1968) [9, 3516 (1967)]

BURSIAN, É. V.
Determination of the Internal Crystal Field in $BaTiO_3$ Using Paramagnetic Ions and the Particle Size Effect. (E) É. V. Bursian and V. V. Shapkin. 9, 211 (1967) [9, 283 (1967)]

BUTIKOV, E. I.
Combination Resonance of Holes in Ge and Si Type Semiconductors. (T) G. L. Bir, E. I. Butikov, and G. E. Pikus. 9, 835 (1967) [9, 1068 (1967)]

BYCHKOVA, A. I.
Microhardness of Filamentary NaCl Crystals. (E) S. U. Gol'denberg and A. I. Bychkova. 9, 525 (1967) [9, 674 (1967)]

CHABAN, A. A.
Possibility of Observing an Acousto-emf in Nonconducting Piezoelectrics. (T) A. A. Chaban. 9, 1432 (1967) [9, 1824 (1967)]
A Nonlinear Effect in Piezoelectric Semiconductors. (E) A. A. Chaban. 9, 2622 (1968) [9, 3334 (1967)]

CHADAEV, E.
Displacement of Atoms by a Cascade of Fast Electrons. (T) V. M. Lenchenko and É. Chadaev. 9, 2310 (1968) [9, 2939 (1967)]

CHAIKHORSKII, A. A.
Study of Nuclear γ-Resonance after α-Decay. (E) G. N. Belozerskii, Yu. A. Nemilov, A. A. Chaikhorskii, and A. V. Shvedchikov. 9, 978 (1967) [9, 1252 (1967)]

CHAPLIK, A. V.
States of Electrons Localized at Surface Charges. (T) B. V. Petukhov, V. L. Pokrovskii, and A. V. Chaplik. 9, 51 (1967) [9, 70 (1967)]
Superconductivity at the Contact Region of Two Media. (T) A. V. Chaplik. 9, 551 (1967) [9, 701 (1967)]

CHARKINA, I. A.
Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 2573 (1968) [9, 3270 (1967)]

CHEBOTKEVICH, L. A.
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Ershov. 9, 854 (1967) [9, 1093 (1967)]

CHEKIN, V. V.
Isomer Shifts of Impurity Sn^{119} Nuclei in Some Semiconducting Compounds. (E) V. V. Chekin, A. P. Vinnikov, and O. P. Balkashin. 9, 2354 (1968) [9, 2992 (1967)]

CHELISHCHEV, N. N.
Effect of Microwave Pulse Length on the Excitation of Unstable Spin Waves. (E) V. I. Churkin and N. N. Chelishchev. 9, 1423 (1967) [9, 1814 (1967)]
Influence of Domain Structure on the Ferromagnetic Resonance in an Iron-Yttrium Garnet Single Crystal. (E) V. I. Churkin and N. N. Chelishchev. 9, 2154 (1968) [9, 2742 (1967)]

CHELUSTKA, B.
Formation of Structure Defects during Low-Temperature Irradiation of Indium Antimonide with X Rays. (E) B. Chelustka, R. Yu. Khansevarov, T. V. Mashovets, and I. R. Kozlova. 9, 253 (1967) [9, 338 (1967)]

CHENTSOV, Yu. V.
Scanning Electron-Microscope Observation of the Action of Light on the Potential Distribution in a p-n Junction. (E) V. N. Vertsner, Yu. V. Chentsov, and V. M. Krygin. 9, 391 (1967) [9, 512 (1967)]

CHEPARIN, V. P.
Ferrimagnetism of Hexagonal Ferrites. (E) T. M. Perekalina and V. P. Cheparin. 9, 2524 (1968) [9, 3205 (1967)]

CHEPUR, D. V.
Thermally Stimulated Current Method under Photoelectret Conditions. (E) D. G. Semak, D. V. Chepur, and V. F. Zolotarev. 9, 966 (1967) [9, 1242 (1967)]

CHEREMSKOI, P. G.
Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]

CHERKASOV, Yu. A.
Photoconductivity of Amorphous Selenium Films at 10^{10} cps. (E) Yu. A. Cherkasov and L. N. Ionov. 9, 722 (1967) [9, 930 (1967)]

CHERNENKO, A. A.
Structure of the Electronic Energy Spectrum in Nonpolar Liquids. (T) R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko. 9, 1578 (1968) [9, 2007 (1967)]

CHERNENKO, I. M.
Electrical Conductivity and Magnetic Susceptibility of Oxide Semiconductors Based on Vanadium Oxides. (E) A. Yu. Kudzin and I. M. Chernenko. 9, 1430 (1967) [9, 1822 (1967)]

CHERNETS, A. N.
Nonequilibrium States in the Spin System of the Fe^{3+} Ion in Andalusite. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. 9, 1040 (1967) [9, 1329 (1967)]

CHERNOPLEKOV, N. A.
A Lattice-Dynamical Investigation of the Hydrides CeH_3, CeH_2, ThH_3, and $UH_{1.7}$ Using Inelastic Scattering of Cold Neutrons. (E) I. Karimov, M. G. Zemlyanov, M. E. Kost, V. A. Somenkov, and N. A. Chernoplekov. 9, 1366 (1967) [9, 1740 (1967)]
Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1566 (1968) [9, 1991 (1967)]

CHERNOV, V. M.
Temperature Dependence of Moments of EPR Lines. (E) V. M. Chernov. 9, 972 (1967) [9, 1247 (1967)]

CHERNOV, Yu. M.
Optical Determination of the Elastic Limit of Sodium Chloride Single Crystals in the Liquid-Helium Temperature Range. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 1720 (1968) [9, 2190 (1967)]
Optical Elastic Limit of Lithium Fluoride Single Crystals in the Temperature Range 300-1.4°K. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 2008 (1968) [9, 2549 (1967)]

CHETKIN, M. V.
Faraday Effect Mechanisms in Ferrimagnets. (E) M. V. Chetkin, I. G. Morozova, and G. K. Tyutneva. 9, 2852 (1968) [9, 3621 (1967)]

CHIRKIN, G. K.
Electron Paramagnetic Resonance of the Cu^{2+} Ion in NH_4Br. (E) G. M. Larin, I. V. Miroshnichenko, and G. K. Chirkin. 9, 529 (1967) [9, 677 (1967)]

CHIRKOV, A. A.
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Pilipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]

CHIRKOV, V. I.
Study of X-Ray K Spectra of Titanium in Its Nitride and Carbide. (E) V. I. Chirkov, S. M. Blokhin, and É. E. Vainshtein. 9, 873 (1967) [9, 1116 (1967)]

CHISLER, É. V.
Study of the Ferroelectric Transition in $NaNO_3$ Using the Raman Scattering Spectrum in the Region of NO_3^- Anion Vibrations. (E) É. V. Chisler and M. S. Shur. 9, 796 (1967) [9, 1015 (1967)]

CHUDAKOV, V. S.
Real Structure and Reaction Capability of Silicon Single Crystals. (E) G. I. Distler, S. A. Kobzareva, and V. S. Chudakov. 9, 200 (1967) [9, 269 (1967)]

CHUENKOV, V. A.
Theory of Impact Ionization in Ionic Semiconductors. (T) V. A. Chuenkov. 9, 35 (1967) [9, 48 (1967)]

CHUKINA, T. P.
Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2064 (1968) [9, 2625 (1967)]

CHURKIN, V. I.
Effect of Microwave Pulse Length on the Excitation of Unstable Spin Waves. (E) V. I. Churkin and N. N. Chelishchev. 9, 1423 (1967) [9, 1814 (1967)]
Influence of Domain Structure on the Ferromagnetic Resonance in an Iron-Yttrium Garnet Single Crystal. (E) V. I. Churkin and N. N. Chelishchev. 9, 2154 (1968) [9, 2742 (1967)]

DANIL'CHUK, L. N.
Direct Observation of Screw Dislocations Perpendicular to the Surface of Single-Crystal Silicon. (E) L. N. Danil'chuk and V. I. Nikitenko. 9, 1592 (1968) [9, 2027 (1967)]

DAVYDOV, B. M.
Exciton-Phonon Interaction in One-Dimensional Molecular Crystals. (T) A. S. Davydov and B. M. Nitsovich. 9, 1749 (1968) [9, 2230 (1967)]

DEIGEN, M. F.
Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Maevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 983 (1967)]
Spin-Lattice Relaxation of Localized Electron Centers with Hyperfine Interaction. (T) M. F. Deigen and I. I. Zheru. 9, 1320 (1967) [9, 1679 (1967)]
Electrical Effects in the EPR of Cu^{2+} in $CdWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 1926 (1968) [9, 2450 (1967)]
Double Electron-Nuclear Magnetoacoustic Resonance at Localized Electronic Centers. (T) M. F. Deigen and I. I. Zheru. 9, 2053 (1968) [9, 2611 (1967)]
Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3198 (1967)]
A Method for Determining the Conduction Band Structure and the Effective Mass of Electrons in Crystals from Electron-Nuclear Double Resonance Data. (T/E) V. G. Grachev, M. F. Deigen, and S. I. Pekar. 9, 2489 (1968) [9, 3157 (1967)]

DELYAGIN, N. N.
Magnetic Fields of the Nuclei on Sn^{119} Impurity Atoms in Ferromagnetic Materials. (E) A. E. Balabanov and N. N. Delyagin. 9, 1498 (1968) [9, 1899 (1967)]

DENISOV, S. S.
Secondary Electron Emission of Aluminum and Nickel for Obliquely Incident Primary Electrons. (E) I. M. Bronshtein and S. S. Denisov. 9, 731 (1967) [9, 938 (1967)]

DEREVYANCHENKO, A. S.
A Diffractometer Investigation of the Structure of Amorphous Gallium Using Electron Diffraction with a Retarding Field. (E) B. T. Boiko, L. S. Palatnik, and A. S. Derevyanchenko. 9, 1278 (1967) [9, 1635 (1967)]

DEVYATKOVA, E. D.
Thermal Conductivity and Specific Heat of Yttrium-Calcium Garnets. (E) E. D. Devyatkova and V. V. Tikhonov. 9, 604 (1967) [9, 772 (1967)]
Forbidden-Band Width of PbSe at High Temperatures. (E) E. D. Devyatkova and V. A. Saakyan. 9, 2163 (1968) [9, 2750 (1967)]

DIANOV, E. M.
Experimental Investigation of the Absorption of CsI and CsBr Single Crystals in the Wavelength Range 0.38-2 mm. (E) E. M. Dianov. 9, 464 (1967) [9, 604 (1967)]

DIDYK, R. I.
Coalescence of F Centers in Photochemically Colored NaCl and KCl Crystals Containing Anion Impurities. (E) N. A. Tsal', M. V. Pashkovskii, and R. I. Didyk. 9, 175 (1967) [9, 237 (1967)]

DISTLER, G. I.
Real Structure and Reaction Capability of Silicon Single Crystals. (E) G. I. Distler, S. A. Kobzareva, and V. S. Chudakov. 9, 200 (1967) [9, 269 (1967)]
A New Method for the Electrical Decoration of the Surface of Solids. (E) G. I. Distler, T. Yu. Ta'ung-hsing, and E. M. Aleksandrova. 9, 2364 (1968) [9, 3000 (1967)]

DITINA, Z. Z.
Investigation of the Surface of Cadmium Selenide by the EPR Method. (E) Z. Z. Ditina and L. P. Strakhov. 9, 2000 (1968) [9, 2539 (1967)]

DITMAN, A. V.
Electrical Conductivity and Thermoelectric Power of Molten Ag_2S Containing Excess Sulfur. (E) I. N. Vechko, A. V. Ditman, and A. R. Regel'. 9, 2902 (1968) [9, 3669 (1967)]

DMITRENKO, I. M.
Experimental Observation of Electromagnetic Radiation from Sn-Pb, Pb-Pb and In-In Superconducting Tunnel Junctions. (E) I. M. Dmitrenko, I. K. Yanson, and I. I. Yurchenko. 9, 2889 (1968) [9, 3656 (1967)]

DMITRIEVA, T. G.
Nature of the Damage of High-Strength Glass and Possibilities of Protecting Glass. (E) L. G. Baikova, F. F. Vitman, T. G. Dmitrieva, and V. P. Pukh. 9, 365 (1967) [9, 480 (1967)]

DOBREGO, V. P.
Influence of Uniaxial Compression on the Interimpurity Radiative Recombination in Germanium. (E) V. P. Dobrego, S. M. Ryvkin, and I. S. Shlimak. 9, 1131 (1967) [9, 1451 (1967)]

DOBRETSOV, L. N.
Monomolecular Semiconductor Layers on Metals. (T) L. N. Dobretsov. 9, 2177 (1968) [9, 2769 (1967)]

DOGONADZE, R. R.
Structure of the Electronic Energy Spectrum in Nonpolar Liquids. (T) R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko. 9, 1578 (1968) [9, 2007 (1967)]

DOLGOPOLOV, D. G.
Amplitude of Knight Shift Oscillations. (E/T) D. A. Zhogolev and D. G. Dolgopolov. 9, 982 (1967) [9, 1256 (1967)]

DOLININ, V. A.
Inelastic Scattering of 0.2-0.8 keV Electrons Incident at Large Angles on Beryllium and Lead. (E) I. M. Bronshtein and V. A. Dolinin. 9, 535 (1967) [9, 683 (1967)]
The Secondary Electron Emission (SEE) of Solids at Large Angles of Incidence of the Primary Beam. (E) I. M. Bronshtein and V. A. Dolinin. 9, 2133 (1968) [9, 2718 (1967)]

DRIYAEV, D. G.
Low-Temperature Internal-Friction Peaks in Lithium Fluoride Crystals. (E) N. G. Politov and D. G. Driyaev. 9, 1206 (1967) [9, 1534 (1967)]

DRUZHININ, V. V.
Reduction of the Slater Parameters for an Impurity Ion. (T) V. V. Druzhinin. 9, 1938 (1968) [9, 2463 (1967)]

DUBENSKII, K. K.
Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. (T/E) K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 9, 1553 (1968) [9, 1974 (1967)]

DUBNOVA, G. N.
Interaction of Dislocations at Nodes and the Equilibrium of Dislocations. (T) V. L. Indenbom and G. N. Dubnova. 9, 915 (1967) [9, 1171 (1967)]

DUBOSSARSKAYA, V. Ya.
State of Vanadium Ions in Garnet Ferrites. (T/E) A. P. Nikol'skii, V. Ya. Dubossarskaya, and S. S. Gorelik. 9, 1809 (1968) [9, 2311 (1967)]

DUDAREV, E. S.
Thermal Ionization Mechanism for F Centers in Alkali-Halide Crystal Phosphors. (T/E) F. N. Zaitov and E. S. Dudarev. 9, 2435 (1968) [9, 3087 (1967)]

DUDENKOVA, A. V.
Utilization of a Laser to Measure the Lifetime of Excess Carriers in Gallium Arsenide Single Crystals. (E) A. V. Dudenkova and V. V. Nikitin. 9, 684 (1967) [9, 851 (1967)]

DZHAFAROV, E. O.
Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinnik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1968) [9, 1537 (1967)]

DZHALILOV, N. Z.
Local Levels in a Hexagonal Selenium Single Crystal. (E) M. Ya. Bakirov and N. Z. Dzhalilov. 9, 968 (1967) [9, 1244 (1967)]

DZHORZHISHVILI, L. I.
EPR of Colloidal Lithium in Neutron-Irradiated LiF Crystals. (E) L. I. Dzhordzhishvili, T. L. Kalabegishvili, N. G. Politov, and S. V. Sobolevskaya. 9, 2348 (1968) [9, 2986 (1967)]

ÉDEL'MAN, F. L.
Temperature Dependence of the Peierls Stress in InSb, Ge, and Si. (E) F. L. Édel'man. 9, 1103 (1967) [9, 1414 (1967)]
Mechanical Twinning in Indium Antimonide and Germanium. (E) F. L. Édel'man. 9, 1648 (1968) [9, 2103 (1967)]

EFIMENKO, V. P.
Investigation of Some Dynamic Characteristics of Dislocations in Potassium Bromide Crystals by the Internal Friction Method. (E) V. Ya. Platkov, V. P. Efimenko, and V. I. Startsev. 9, 2200 (1968) [9, 2799 (1967)]

EFIMKOV, V. F.
GaAs Semiconductor Laser Optically Excited by Radiation Having Energy Close to the Forbidden-Band Width. (E/T) N. G. Basov, A. Z. Grasyuk, V. F. Efimkov, and V. A. Katulin. 9, 65 (1967) [9, 88 (1967)]

ÉFROS, A. L.
Theory of Kinetic Phenomena in Semiconductors Having a Small Mobility. (T) A. L. Éfros. 9, 901 (1967) [9, 1152 (1967)]
Relationship between Transport Coefficients in a Strong Magnetic Field. (T) A. L. Éfros. 9, 2394 (1968) [9, 3031 (1967)]
Quantum Theory of the Hall Effect in Semimetals Having an Equal Number of Electrons and Holes. (T) A. L. Éfros. 9, 2725 (1968) [9, 3456 (1967)]

ÉIDEL'MAN, L. G.
Block Boundaries in Sodium Chloride Single Crystals Grown from the Melt. (E) L. G. Éidel'man. 9, 9 (1967) [9, 13 (1967)]

EIVAZOV, E. A.
Motion of Liquid-Lithium Inclusions in LiF Single Crystals in an External Electric Field. (T/E) Ya. E. Geguzin, S. S. Simeonov, and É. A. Éivazov. 9, 1123 (1967) [9, 1440 (1967)]

ÉLIASHBERG, M. B.
Luminescence of X-Ray Irradiated KCl - Cu Crystals Caused by Small Deformations. (E) S. Z. Shmurak and M. B. Éliashberg. 9, 1427 (1967) [9, 1818 (1967)]

ELINSON, M. I.
Field Effect in Bismuth. (E/T) Yu. F. Ogrin, V. N. Lutskii, and M. I. Elinson. 9, 2547 (1968) [9, 3234 (1967)]
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

ELISEENKO, L. G.
Relationship between the Ranges of Fast and Slow Electrons in Alkali-Halide Compounds. (E) L. G. Eliseenko, V. N. Shchemelev, and M. A. Rumsh. 9, 128 (1967) [9, 171 (1967)]

ELISTRATOV, A. M.
The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

EMEL'YANENKO, O. V.
Negative Magnetoresistance in Cu-Doped n-Type GaAs. (E/T) O. V. Emel'yanenko, É. É. Klotyn'sh, T. S. Lagunova, and D. N. Nasledov. 9, 725 (1967) [9, 933 (1967)]

EPSHTEIN, E. M.
Acoustomagnetoelectric Effect in Monopolar Conductors. (T) É. M. Épshtein and Yu. V. Gulyaev. 9, 288 (1967) [9, 376 (1967)]
Acoustothermal Effects in Solids. (T) Yu. V. Gulyaev and É. M. Épshtein. 9, 674 (1967) [9, 864 (1967)]

EREMENKO, V. G.
Plastic Deformation of Silicon in the Brittle Fracture Region. (E) V. I. Nikitenko, M. M. Myshlyaev, and V. G. Eremenko. 9, 2047 (1968) [9, 2604 (1967)]
Electron-Microscope Observation of Dislocation Motion in Silicon under the Influence of an Electron Beam. (E) M. M. Myshlyaev, V. I. Nikitenko, and V. G. Eremenko. 9, 2427 (1968) [9, 3077 (1967)]

EREMENKO, V. V.
Magnetoresonance Faraday Effect in the Antiferromagnets MnF_2 and $RbMnF_3$. (E) N. F. Kharchenko and V. V. Eremenko. 9, 1302 (1967) [9, 1655 (1967)]

EREMINA, I. V.
Mössbauer and X-Ray Investigation of a Finely Divided Fe + 12 at.% Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]

ERMOLOVICH, I. B.
Luminescence of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]
Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]
Determination of the Radiative Yield of the Electron Capture by Sensitizing Recombination Centers in CdSe. (E) G. L. Belen'kii, I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2626 (1968) [9, 3337 (1967)]

ERSHOV, A. D.
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Ershov. 9, 854 (1967) [9, 1093 (1967)]

ERU, I. I.
Nonequilibrium States in the Spin System of the Fe^{3+} Ion in Andalusite. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. 9, 1040 (1967) [9, 1329 (1967)]

ESINA, N. P.
Investigation of the Electroluminescence of p-n Junctions in Indium Arsenide. (E) N. P. Esina, N. V. Zotova, and D. N. Nasledov. 9, 1036 (1967) [9, 1324 (1967)]

EVDOKIMOV, I. N.
A Method for Observing Annealing of Defects in Crystals. (E) I. N. Evdokimov, E. S. Mashkova, and V. A. Molchanov. 9, 1434 (1967) [9, 1825 (1967)]
Dependence of the Sputtering Coefficients of Polycrystalline Targets on the Angle of Incidence of Ions. (E) I. N. Evdokimov and V. A. Molchanov. 9, 1967 (1968) [9, 2503 (1967)]

EVSEEV, Z. Ya.
Microscopic Theory of F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 9, 1 (1967) [9, 3 (1967)]

FAKIDOV, I. G.
Magnetic Properties of an FeRh Alloy in Strong Magnetic Fields. (E) É. A. Zavadskii and I. G. Fakidov. 9, 103 (1967) [9, 139 (1967)]
Investigation of the Moduli of Elasticity and Compressibility of Europium in the Temperature Range 70–295°K. (E) A. M. Burkhanov, N. P. Grazhdankina, and I. G. Fakidov. 9, 586 (1967) [9, 748 (1967)]

FAL'KO, I. I.
Absorption of Longitudinal Long-Wave Ultrasound in Superconducting Alloys Having a Multiband Anisotropic Fermi Surface. (T) I. I. Fal'ko. 9, 1668 (1968) [9, 2124 (1967)]

FARBSHTEIN, I. I.
Quantum Oscillations of the Photomagnetic Effect in n-Type InAs. (E) M. S. Bresler, A. V. Matveenko, and I. I. Farbshtein. 9, 1924 (1968) [9, 2448 (1967)]

FEDORENKO, A. I.
Defects in the Crystal Structure of Condensed Bismuth Films. (E) A. I. Fedorenko, L. S. Palatnik, and V. M. Kosevich. 9, 2238 (1968) [9, 2846 (1967)]

FEDOROV, L. I.
Shape of NMR Line for a Two-Spin and Nonresonant-Dipole System. (T/E) B. M. Moiseev and L. I. Fedorov. 9, 1867 (1968) [9, 2387 (1967)]

FEDOROV, V. E.
Optical Spectrum of Fe^{2+} in Sphalerite. (E) A. S. Marfunin, A. N. Platonov, and V. E. Fedorov. 9, 2847 (1968) [9, 3616 (1967)]

FEDORUS, A. G.
Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavrilyuk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]

FEDOTOV, I. I.
Velocity of Ultrasound and ΔE Effect in Ceramic Ferro-piezoelectric Elements. (E) I. I. Fedotov. 9, 1891 (1968) [9, 2419 (1967)]

FEDOTOV, S. P.
Paramagnetic Resonance of Shallow Acceptors in Gallium Arsenide. (E) S. P. Fedotov, V. A. Presnov, and V. K. Bazhenov. 9, 2620 (1968) [9, 3332 (1967)]

FEDOTOVA, E. F.
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Igitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

FEL'DMAN, É. P.
Elastic and Magnetic Fields around Dislocations in Ferromagnets. (T) A. M. Kosevich and É. P. Fel'dman. 9, 2696 (1968) [9, 3415 (1967)]

FEOKTISTOVA, N. N.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

FETISOV, E. P.
Excitation of Electromagnetic Waves in a Solid-State Plasma in the Presence of a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze, A. A. Rukhadze, and E. P. Fetisov. 9, 1055 (1967) [9, 1349 (1967)]

FILIMONOV, A. A.
Second Harmonic Generation in Crystals of RbH_2AsO_4 (RDA) without Birefringence. (E) V. S. Suvorov and A. A. Filimonov. 9, 1674 (1968) [9, 2131 (1967)]

FILIPPOV, B. N.
Theory of Surface Spin Waves. (T) B. N. Filippov. 9, 1048 (1967) [9, 1339 (1967)]

FINKEL', V. M.
A Condensation Method for Direct Observation of Dislocations. (E) V. M. Finkel', R. F. Sharafutdinov, and M. V. Shishkin. 9, 125 (1967) [9, 167 (1967)]
Transfer of Plastic Deformation through Intergranular Boundaries in NaCl Bicrystals. (E) V. M. Finkel', Z. A. Maslovskaya, and V. V. Vakhonin. 9, 945 (1967) [9, 1213 (1967)]

FIRSOV, O. B.
Scattering of High-Energy Particles Incident on a Solid at an Angle Close to $\pi/2$. (T) O. B. Firsov. 9, 1687 (1968) [9, 2145 (1967)]

FIRSOV, Yu. A.
The Spin-Phonon Interaction of Electrons and the Oscillations of the Longitudinal Magnetoresistance in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. 9, 1394 (1967) [9, 1780 (1967)]
Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]
Polaron Nature of the Current Carriers in Rutile (TiO_2). (T) V. N. Bogomolov, E. K. Kudinov, and Yu. A. Firsov. 9, 3502 (1968) [9, 3175 (1967)]
Extension of the Applicability Limit of the Theory of Low Mobility. (T) I. E. Lang and Yu. A. Firsov. 9, 2701 (1968) [9, 3422 (1967)]

FISHMAN, I. M.
Dependence of the Intensity of Stimulated Mandel'shtam-Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Ryasakov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]

FISTUL', V. I.
Infrared Absorption Spectra of Gallium Arsenide Heavily Doped with Sulfur, Selenium, and Tellurium. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 1443 (1967) [9, 1835 (1967)]
Infrared Absorption of Gallium Arsenide Doped with Group VI Impurities. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 2849 (1968) [9, 3618 (1967)]

FOGEL', A. A.
Crystallization of Levitating Metals. (E) A. A. Fogel', T. A. Sidorova, Z. A. Guts, and M. M. Mezdrogina. 9, 2636 (1968) [9, 3346 (1967)]

FOMICHEV, V. A.
Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]
Discrete Absorption by 4d Electrons in the Lanthanum Group Rare-Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]
X-Ray Satellites of Silicon. (E) V. A. Fomichev and T. M. Zimkina. 9, 1441 (1967) [9, 1833 (1967)]
Investigation of the Energy Structure of Red Phosphorus by Ultra-Soft X-Ray Spectroscopy. (E) V. A. Fomichev. 9, 2398 (1968) [9, 3034 (1967)]
The X-Ray Spectra of Boron and Its Compounds. (T/E) V. A. Fomichev. 9, 2496 (1968) [9, 3167 (1967)]

FOMIN, N. V.
Quantum Theory of Space Charge Capacitance. (T) N. V. Fomin. 9, 476 (1967) [9, 616 (1967)]

FRADKIN, É. E.
Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. (T) E. D. Trifonov, A. S. Troshin, and É. E. Fradkin. 9, 1617 (1968) [9, 2061 (1967)]

FRANKEVICH, E. L.
Photoconductivity and Recombination of Triplet Excitons in Anthracene. (E) E. L. Frankevich and I. A. Sokolik. 9, 1532 (1968) [9, 1945 (1967)]
Production of Current Carriers from Excitons by Charge Transfer in Anthracene. (T/E) E. L. Frankevich and I. A. Sokolik. 9, 2715 (1968) [9, 3441 (1967)]

FRANTSESSON, A. V.
Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) V. A. Atsarkin and A. V. Frantsesson. 9, 2644 (1968) [9, 3352 (1967)]

FREIMAN, Yu. A.
Thermodynamic Model for Dissolution of Impurities and Deviations from Stoichiometry in Crystals Having Stoichiometric Vacancies. (T) V. M. Koshkin, Yu. A. Freiman, and L. V. Atroshchenko. 9, 2460 (1968) [9, 3120 (1967)].

FRIDKIN, V. M.
Hole Injection in Anthracene from an Electrolyte and Space-Charge Limitation of Current. (E) V. Yu. Litvinenko and V. M. Fridkin. 9, 2845 (1968) [9, 3615 (1967)]
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

FUKS, M. Ya.
An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 588 (1967) [9, 751 (1967)]
Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]

FUNIN, V. N.
Change in Electrical Resistivity in the α-Phase of Scandium Hydride. (E) Z. M. Azarkh, V. N. Funin, and N. D. Yur'eva. 9, 1066 (1967) [9, 1364 (1967)]

FURSEI, G. N.
Investigation of the Field Emission of Electrons from Germanium. (E) V. G. Ivanov, G. N. Fursei, and I. L. Sokol'skaya. 9, 895 (1967) [9, 1144 (1967)]
Autoelectronic Emission from p-Silicon Cleaned with a Desorption Field. (E) G. N. Fursei and V. G. Ivanov. 9, 1421 (1967) [9, 1812 (1967)]

GABUDA, S. P.
Investigation of the Diffusion of Fluorine Atoms in a LaF_3 Single Crystal Using the Nuclear Resonance Method. (E) A. G. Lundin, S. P. Gabuda, and A. I. Lifshits. 9, 273 (1967) [9, 357 (1967)]
NMR and Ferroelectric Properties of Sodium Hydroselenite Mixed Crystals. (E) G. V. Gavrilova-Podol'skaya, S. P. Gabuda, and A. G. Lundin. 9, 911 (1967) [9, 1166 (1967)]

GALAKTIONOVA, G. M.
Ferromagnetic Resonance in Single Crystals of Bismuth–Calcium–Iron–Vanadium Garnet. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 134 (1967) [9, 179 (1967)]
Magnetic Crystallographic Anisotropy of Indium-Substituted Yttrium Garnets. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 2124 (1968) [9, 2707 (1967)]

GALKIN, A. A.
EPR Spectrum of Mn^{2+} in $ZnWO_4$. (E) A. A. Galkin, G. N. Nello, and G. A. Tsintsadze. 9, 275 (1967) [9, 359 (1967)]

GALKIN, G. N.
Carrier Density in a Semiconductor Illuminated with a Laser. (E) L. M. Blinov, V. S. Vavilov, and G. N. Galkin. 9, 686 (1967) [9, 854 (1967)]
Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]

GAL'PERIN, Yu. M.
Quantum Oscillations of Thermomagnetic Coefficients in Strong Magnetic Fields. (T) Yu. M. Gal'perin. 9, 2029(1968)[9, 2579(1967)]

GANN, V. V.
Magnetoelastic Interaction in Antiferromagnets. (T) V. G. Bar'yakhtar and V. V. Gann. 9, 1611 (1968) [9, 2052 (1967)]
Coupled Magnetoelastic Waves in Antiferromagnets. (T) V. V. Gann. 9, 2734 (1968) [9, 3467 (1967)]

GANTSEVICH, S. V.
Theory of Electrical Conductivity of a Many-Valley Semiconductor in a Strong Electric Field. (T) S. V. Gantsevich. 9, 707 (1967) [9, 909 (1967)]

GARBER, R. I.
Friction Forces and Surface Tension of Twinning Dislocations. (E/T) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 9, 332 (1967) [9, 435 (1967)]
Measurement of the Electrical Resistance of Bismuth during Programmed Loading. (E) R. I. Garber, I. A. Gindin, and I. M. Neklyudov. 9, 1224 (1967) [9, 1554 (1967)]
Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 2573 (1968) [9, 3270 (1967)]

GARBUZOV, D. Z.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhilyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

GASYMOV, T. M.
Phonon Heating in Semiconductors in a High Electric Field and Its Effect on Electric Conductivity. (T) L. É. Gurevich and T. M. Gasymov. 9, 78 (1967) [9, 106 (1967)]
Thermal EMF of a Semiconductor in a Strong Electric Field. (T) L. É. Gurevich and T. M. Gasymov. 9, 2752 (1968) [9, 3493 (1967)]

GAVRILKO, V. G.
Thermal Expansion of Solidified Inert Gases. (E) V. G. Manzhelii, V. G. Gavrilko, and E. I. Voitovich. 9, 1157 (1967) [9, 1483 (1967)]

GAVRILOV, F. F.
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Pilipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]

GAVRILOVA-PODOL'SKAYA, G. V.
NMR and Ferroelectric Properties of Sodium Hydroselenite Mixed Crystals. (E) G. V. Gavrilova-Podol'skaya, S. P. Gabuda, and A. G. Lundin. 9, 911 (1967) [9, 1166 (1967)]

GAVRILYUK, V. M.
Adsorption of Lithium on Faces of a Tungsten Single Crystal Covered with an Adsorbed Oxygen Film. (E) V. M. Gavrilyuk and V. K. Medvedev. 9, 259 (1967) [9, 344 (1967)]
Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavrilyuk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]

GEGUZIN, Ya. E.
Motion of Na^+ in a Diffusion Zone of the NaCl–NaBr System. (E) Ya. E. Geguzin, V. I. Solunskii, and A. G. Shakhova. 9, 980 (1967) [9, 1254 (1967)]
Frenkel' Effect in the Mutual Diffusion in Alkali-Halide Single Crystals (KCl–KBr System). (E) Ya. E. Geguzin and Yu. I. Boiko. 9, 1074 (1967) [9, 1375 (1967)]
Motion of Liquid-Lithium Inclusions in LiF Single Crystals in an External Electric Field. (T/E) Ya. E. Geguzin, S. S. Simeonov, and É. A. Živazov. 9, 1123 (1967) [9, 1440 (1967)]
Anisotropy of the Orientation of the Tracks of Uranium Fission Fragments in LiF Single Crystals. (E) Ya. E. Geguzin, I. G. Berzina, and I. V. Vorob'eva. 9, 2642 (1968) [9, 3350 (1967)]

GEGUZINA, S. Ya.
Ultrasonic Relaxation near a Ferroelectric Phase Transition Point of the Second Kind in an Electric Field. (T/E) S. Ya. Geguzina and B. L. Timan. 9, 1702 (1968) [9, 2167 (1967)]
Influence of the Long-Range Dipole-Dipole Forces on the Attenuation and Velocity of Ultrasound in Ferroelectrics near the Second-Order Transition Point. (T) S. Ya. Geguzina and M. A. Krivoglaz. 9, 2441 (1968) [9, 3095 (1967)]

GEIFMAN, I. N.
EPR of Mn^{2+} in $Cd(S_{1-x}: Se_x)$ Single Crystals. (E) V. M. Masevskii, I. N. Geifman, and N. I. Vitrikhovskii. 9, 1912 (1968) [9, 2437 (1967)]

GEILIKMAN, B. T.
Properties of Superconductors Having Overlapping Bands. (T) B. T. Geilikman, R. O. Zaitsev, and V. Z. Kresin. 9, 642 (1967) [9, 821 (1967)]
Pairing Criterion in Electron Mechanism for Superconductivity. (T) B. T. Geilikman. 9, 2651 (1968) [9, 3359 (1967)]
Thermal Properties of Superconductors with a Strong Electron-Phonon Interaction. (T/E) B. T. Geilikman and V. Z. Kresin. 9, 2453 (1968) [9, 3111 (1967)]

GEN, M. Ya.
Mössbauer and X-Ray Investigations of a Finely Divided Fe + 12 at.% Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]

GENKIN, G. M.
A Tensor for the Nonlinear Polarizability of a Ferromagnetic Metal. (T) V. M. Genkin and G. M. Genkin. 9, 1981 (1968) [9, 2517 (1967)]

GENKIN, V. M.
Nonlinear Effects in a Ferromagnet. (T) V. M. Genkin. 9, 864 (1967) [9, 1106 (1967)]
A Tensor for the Nonlinear Polarizability of a Ferromagnetic Metal. (T) V. M. Genkin and G. M. Genkin. 9, 1981 (1968) [9, 2517 (1967)]

GERASIMENKO, N. N.
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3665 (1967)]

GERMAN, V. N.
Explosive Deformation of Single Crystals. (E) L. V. Al'tshuler, M. I. Brazhnik, V. N. German, and L. I. Mirkin. 9, 2417 (1968) [9, 3063 (1967)]

GERSHENZON, E. M.
Detection of Cyclotron Resonance from Changes in the Static Conductivity. (E) E. M. Gershenzon, Yu. A. Gurvich, N. G. Ptitsyna, and S. L. Orlova. 9, 543 (1967) [9, 691 (1967)]

GERSHINSKII, A. E.
Mechanism of Current Conduction in Thin-Film Metal–Dielectric–Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 1332 (1967) [9, 1695 (1967)]
Current Instability in Thin-Film Metal–Dielectric–Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 2905 (1968) [9, 3672 (1967)]

GERSHUN, A. S.
Formation of Charged Regions in CdS by the Application of an Electric Field. (E) A. S. Gershun and B. L. Timan. 9, 727 (1967) [9, 935 (1967)]

GERZANICH, E. I.
Profile of the Fundamental Absorption Edge of the Ferroelectric Semiconductor SbSI. (E) E. I. Gerzanich. 9, 2358 (1968) [9, 2995 (1967)]
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

GIFEISMAN, Sh. N.
Ground-State Energy of a Bound Polaron. (T/E) Yu. E. Perlin and Sh. N. Gifeisman. 9, 2165 (1968) [9, 2752 (1967)]

GIL'FANOV, F. Z.
Characteristics of Impurity-Center Formation in CdF_2. (E) F. Z. Gil'fanov, L. D. Livanova, and A. L. Stolov. 9, 326 (1967) [9, 427 (1967)]
Symmetry of Centers and Nature of Excited Stark Levels of Gd^{3+} Ion in CaF_2 Crystals. (E) F. Z. Gil'fanov, A. M. Leushin, and A. L. Stolov. 9, 1061 (1967) [9, 1357 (1967)]
Effect of Temperature on Gd^{3+} Impurity Centers in SrF_2. (E) F. Z. Gil'fanov, A. Kh. Karataseva, and A. L. Stolov. 9, 2172 (1968) [9, 2758 (1967)]

GINDIN, I. A.
Measurement of the Electrical Resistance of Bismuth during Programmed Loading. (E) R. I. Garber, I. A. Gindin, and I. M. Neklyudov. 9, 1224 (1967) [9, 1554 (1967)]
Variation of Ultrasonic Absorption in Fast and Programmed Loading. (E/T) I. A. Gindin, I. M. Neklyudov, and V. B. Rabukhin. 9, 1410 (1967) [9, 1802 (1967)]
Interaction of Point Defects with Dislocations in High-Purity Quenched Aluminum. (E) I. A. Gindin, I. M. Neklyudov, and I. I. Bobenets. 9, 2333 (1968) [9, 2969 (1967)]

GINZBURG, S. L.
Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. (T) S. L. Ginzburg, O. V. Konstantinov, and V. I. Perel'. 9, 1684 (1968) [9, 2139 (1967)]

GITIS, M. B.
The Compressibility of Metals. (T) M. B. Gitis. 9, 924 (1967) [9, 1183 (1967)]

GLASNIK, I.
Effect of the Type of Scattering on Corbino Magnetoresistance in Semiconductors. (T) I. Glasnik. 9, 317 (1967) [9, 414 (1967)]

GLINCHUK, M. D.
Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3198 (1967)]

GOL'DENBERG, S. U.
Microhardness of Filamentary NaCl Crystals. (E) S. U. Gol'denberg and A. I. Bychkova. 9, 525 (1967) [9, 674 (1967)]

GOL'DSHTEIN, L. M.
Determination of the Work Function and Blackbody Coefficient of Boron and Silicon by the Intrinsic Thermometer Method. (E) É. I. Adirovich and L. M. Gol'dshtein. 9, 984 (1967) [9, 1258 (1967)]

GOLENISHCHEV-KUTUZOV, V. A.
Fine Structure of the Dipole Nuclear Acoustic Resonance of Al^{27} in Ruby. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, and U. Kh. Kopvillem. 9, 276 (1967) [9, 361 (1967)]
Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Aver'yanov. 9, 1899 (1968) [9, 2426 (1967)]

GOLIK, L. L.
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

GOLIKOVA, O. A.
Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1967) [9, 1557 (1967)]

GOLOVKO, O. P.
Effect of Deformation by Ultrasound on the Photosensitivity of Silver Chloride Crystals. (E) O. P. Golovko, N. A. Tyapunina, and M. P. Shaskol'skaya. 9, 1887 (1968) [9, 2414 (1967)]

GOLOVKO, V. A.
Density Distribution in a Crystal. (T) V. A. Golovko. 9, 1210 (1967) [9, 1538 (1967)]

GOLUBEV, G. P.
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. S. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashtakov, and E. I. Tsarapaeva. 9, 657 (1967) [9, 842 (1967)]

GOLUBEVA, L. A.
Change in the Lattice Constant of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva, S. A. Smirnyagina, and A. A. Shishelov. 9, 1897 (1968) [9, 2424 (1967)]

GOLUBKOV, A. V.
Influence of the Multiplet Structure of Sm^{2+} on the Specific Heat of Samarium Monochalcogenides. (E) A. V. Golubkov and V. V. Tikhonov. 9, 750 (1967) [9, 954 (1967)]

GOMOYUNOVA, M. V.
Excitation Density Distribution for Internal Secondary Electrons in Cesium Iodide for Medium-Energy Primary Electrons. (E) M. V. Gomoyunova. 9, 2802 (1968) [9, 3559 (1967)]

GONCHAROV, K. V.
Resonance Absorption of Sound Waves in Iron Garnet Single Crystals. (E/T) K. V. Goncharov, V. A. Krasil'nikov, and V. I. Uchastkin. 9, 2671 (1968) [9, 3384 (1967)]

GONCHAROVA, A. A.
Effect of UHF Magnetic Field Polarization on the Instability Threshold of Spin Vibrations. (T) L. V. Kitaev, A. A. Goncharova, and G. I. Katamaran. 9, 246 (1967) [9, 330 (1967)]

GONCHAROVA, E. V.
Determination of Effective Mass in LaSb from the Infrared Reflection Spectrum. (E) E. V. Goncharova and A. A. Kukharskii. 9, 1214 (1967) [9, 1543 (1967)]

GORDEEV, G. P.
Neutron Diffraction Study of Atomic and Magnetic Structures of Calcium–Vanadium–Ferrite Garnet. (E) V. P. Plakhtii, G. P. Gordeev, A. A. Kuzina, and É. I. Turkevich. 9, 1762 (1968) [9, 2247 (1967)]

GORDIENKO, V. A.
Spontaneous Magnetostriction of the Compound $MnAu_2$. (E) V. A. Gordienko and V. I. Nikolaev. 9, 2216 (1968) [9, 2820 (1967)]

GORELIK, S. S.
State of Vanadium Ions in Garnet Ferrites. (T/E) A. P. Nikol'skii, V. Ya. Dubossarskaya, and S. S. Gorelik. 9, 1809 (1968) [9, 2311 (1967)]

The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Roshanskii. 9, 2448 (1968) [9, 3104 (1967)]

GORLOV, A. D.
Experimental Investigation of the Influence of an External Field on the EPR Spectrum of Cr^{3+} Ions in Corundum. (E) V. I. Nepsha, Yu. A. Sherstkov, A. D. Gorlov, and A. A. Shchetkov. 9, 1907 (1968) [9, 2433 (1967)]

GORODETSKII, A. E.
Bombardment of Thin CdTe Films with Indium Ions. (E) G. A. Kachurin, A. E. Gorodetskii, Yu. V. Loburets, and L. S. Smirnov. 9, 375 (1967) [9, 494 (1967)]
Irradiation of Thin Layers of CdTe by Cadmium Ions. (E) L. S. Smirnov, G. A. Kachurin, and A. E. Gorodetskii. 9, 564 (1967) [9, 719 (1967)]

GOTT, Yu. V.
Deceleration of Slow Hydrogen and Deuterium Ions in a Thin Silver Foil. (E) Yu. V. Gott and V. G. Tel'kovskii. 9, 1741 (1968) [9, 2221 (1967)]

GRACHEV, V. G.
A Method for Determining the Conduction Band Structure and the Effective Mass of Electrons in Crystals from Electron-Nuclear Double Resonance Data. (T/E) V. G. Grachev, M. F. Deigen, and S. I. Pekar. 9, 2489 (1968) [9, 3157 (1967)]

GRASYUK, A. Z.
GaAs Semiconductor Laser Optically Excited by Radiation Having Energy Close to the Forbidden-Band Width. (E/T) N. G. Basov, A. Z. Grasyuk, V. F. Efimkov, and V. A. Katulin. 9, 65 (1967) [9, 83 (1967)]

GRAZHDANKINA, N. P.
Investigation of the Moduli of Elasticity and Compressibility of Europium in the Temperature Range 70-295°K. (E) A. M. Burkhanov, N. P. Grazhdankina, and I. G. Fakidov. 9, 586 (1967) [9, 748 (1967)]

GREKHOV, I. V.
Relation between Dislocations and Microplasmas during Avalanche Breakdown of a p-n Junction in Si. (E) I. V. Grekhov, N. N. Kryukova, and A. I. Novikov. 9, 1439 (1967) [9, 1831 (1967)]

GRIBNIKOV, Z. S.
Characteristics of the Electric Pinch Effect in Many-Valley Bipolar Semiconductors. (T/E) Z. S. Gribnikov and É. I. Rashba. 9, 760 (1967) [9, 967 (1967)]

GRIBOVSKII, S. A.
Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]
Discrete Absorption by 4d Electrons in the Lanthanum Group Rare-Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]

GRIDNEVA, I. V.
Relaxation of Stresses in a Silicon Single Crystal. (E) I. V. Gridneva, Yu. V. Mil'man, V. G. Permyakov, and V. I. Trefilov. 9, 417 (1967) [9, 547 (1967)]

GRIGAS, B. P.
Pyroelectric Effect in SbSeI Single Crystals. (E) B. P. Grigas. 9, 1903 (1968) [9, 2430 (1967)]
Some Properties of the Pyrocurrent in SbSeI Single Crystals. (E) B. P. Grigas. 9, 2362 (1968) [9, 2998 (1967)]

GRIGAS, I. P.
Thermal Hysteresis of the Phase Transformation in SbSI. (E) V. P. Grigas, I. P. Grigas, and R. P. Belyatskas. 9, 1203 (1967) [9, 1532 (1967)]
Dielectric Properties of Sb_2S_3 Crystals. (E) I. P. Grigas and A. S. Karpus. 9, 2285 (1968) [9, 2883 (1967)]
Investigation of the Anomalous Dispersion of the Permittivity of Sb_2S_3 and SbSI Crystals at Microwave Frequencies. (E) I. P. Grigas and A. S. Karpus. 9, 2270 (1968) [9, 2887 (1967)]

GRIGAS, V. P.
Thermal Hysteresis of the Phase Transformation in SbSI. (E) V. P. Grigas, I. P. Grigas, and R. P. Belyatskas. 9, 1203 (1967) [9, 1532 (1967)]

GRIGOR'EV, S. B.
Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Sazonov. 9, 2096 (1968) [9, 2670 (1967)]

GRIGOR'EV, V. P.
Influence of the Distribution of Correlation Times in Polymers on the NMR Line Width. (T/E) V. P. Grigor'ev, V. M. Lantsov, A. I. Maklakov, and A. A. Lantsova. 9, 2867 (1968) [9, 3635 (1967)]

GRIGOR'EVA, L. N.
Magnetic Structure of the Hexaferrite $Ba_2Me_2Fe_{28}O_{41}$ (Me_2Z). (E) I. I. Petrova, M. A. Vlasnik, and L. N. Grigor'eva. 9, 2389 (1968) [9, 3026 (1967)]

GRIGOR'EVA, V. S.
Injection Luminescence of Epitaxial Heterojunctions in the GaP—GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

GRIGORYAN, N. A.
Phase Diagram of a System of Solid Solutions $Bi(MnO_3-PbTiO_3$ Having Pervoskite-Type Structure. (E) V. A. Bokov, N. A. Grigoryan, and M. F. Bryzhina. 9, 262 (1967) [9, 347 (1967)]
Magnetic Fields at Tin Nuclei in a Manganese Ferrite. (E) G. V. Novikov, V. A. Trukhtanov, S. I. Yushchuk, and N. A. Grigoryan. 9, 2350 (1968) [9, 2988 (1967)]

GRINBERG, A. A.
Two-Photon Photoconductivity in CdS Excited with Giant Pulses from Ruby Laser. (E) B. M. Ashkinadze, A. A. Grinberg, S. M. Ryvkin, and I. D. Yaroshetskii. 9, 461 (1967) [9, 601 (1967)]
Mixing of Two Frequencies of Light by Free Current Carriers in Semiconductors Possessing Nonparabolic and Nonspherical Energy Surfaces. (T) A. A. Grinberg. 9, 2004 (1968) [9, 2544 (1967)]

GRINBERG, A. G.
Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]

GRINCHENKO, Yu. A.
Quadrupole Splitting of an NMR Line Caused by Lattice Distortion by Impurity Ions in NaCl-Type Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 9, 2287 (1968) [9, 2909 (1967)]

GRISHINA, A. D.
Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Ashin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]

GROSHIK, I. I.
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

GRUSHKO, Yu. S.
The Mössbauer Effect in Ag^{119}. (E) A. N. Murin, B. G. Lur'e, and Yu. S. Grushko. 9, 1429 (1967) [9, 1820 (1967)]

GULYAEV, Yu. V.
Acoustomagnetoelectric Effect in Monopolar Conductors. (T) É. M. Épshtein and Yu. V. Gulyaev. 9, 288 (1967) [9, 376 (1967)]
Acoustic Concentration Effect in Semiconductors. (T) Yu. V. Gulyaev. 9, 329 (1967) [9, 431 (1967)]
Acoustothermal Effects in Solids. (T) Yu. V. Gulyaev and É. M. Épshtein. 9, 674 (1967) [9, 864 (1967)]
Electron-Phonon Interaction Proportional to the Externally Applied Field. (T) Yu. V. Gulyaev. 9, 1425 (1967) [9, 1816 (1967)]

GUREVICH, A. G.
Time Lag in a Sequence of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, S. S. Starobinets, and K. V. Shevlyagin. 9, 510 (1967) [9, 661 (1967)]

Amplitude and Time Oscillations of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, and K. V. Shevlyagin. 9, 942 (1967) [9, 1209 (1967)]

GUREVICH, L. É.
Theory of the Photoelectric Effect in Finite Crystals at High Frequencies and in the Presence of an External Magnetic Field. (T) L. É. Gurevich and A. A. Rumyantsev. 9, 55 (1967) [9, 75 (1967)]
Phonon Heating in Semiconductors in a High Electric Field and Its Effect on Electric Conductivity. (T) L. É. Gurevich and T. M. Gasymov. 9, 78 (1967) [9, 106 (1967)]
Absorption of High-Frequency Longitudinal Sound in Solids at Low Temperatures. (T) L. É. Gurevich and B. I. Shklovskii. 9, 401 (1967) [9, 526 (1967)]
Indirect Interaction of Electrons and Holes through Phonons and Its Effect on the Kinetic Properties of Semimetals. (T) L. É. Gurevich and I. Ya. Korenblit. 9, 932 (1967) [9, 1195 (1967)]
Thermal EMF of a Semiconductor in a Strong Electric Field. (T) L. É. Gurevich and T. M. Gasymov. 9, 2752 (1968) [9, 3493 (1967)]

GUREVICH, Yu. G.
Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2742 (1968) [9, 3479 (1967)]

GURGENISHVILI, G. E.
Heating of Carriers in Cyclotron and Combined Resonances. (T) G. E. Gurgenishvili and G. R. Khutsishvili. 9, 1193 (1967) [9, 1523 (1967)]

GURVICH, Yu. A.
Detection of Cyclotron Resonance from Changes in the Static Conductivity. (E) E. M. Gershenzon, Yu. A. Gurvich, N. G. Pittsyna, and S. L. Orlova. 9, 543 (1967) [9, 691 (1967)]

GUSHCHINA, S. A.
Investigation of the Domain Structure of "Hypercritical" Permalloy Films by the Magnetooptical Method. (E) G. S. Krinchik, A. N. Verkhozin, and S. A. Gushchina. 9, 1812 (1968) [9, 2314 (1967)]

GUTS, Z. A.
Crystallization of Levitating Metals. (E) A. A. Fogel', T. A. Sidorova, Z. A. Guts, and M. M. Mezdrogina. 9, 2636 (1968) [9, 3346 (1967)]

GVERDTSITELI, I. G.
Paramagnetic Resonance of Conduction Electrons in Silicon–Germanium Alloys. (E) I. G. Gverdtsiteli, L. N. Aleksandrov, and V. V. Boiko. 9, 1328 (1967) [9, 1690 (1967)]

HYRNKIEWICZ, A. Z.
Mössbauer Effect in Covalent Iron Complexes at Low Temperatures. (E) B. Sawicki, J. Sawicki, and A. Z. Hrynkiewicz. 9, 1100 (1967) [9, 1410 (1967)]

IGLITSIN, M. I.
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

IGNATCHENKO, V. A.
Conditions for Ferromagnetic Resonance in Single-Crystal Films. (T/E) V. A. Ignatchenko and G. I. Rusov. 9, 1650 (1968) [9, 2105 (1967)]
Generation of Hypersound and the Acoustic Excitation of Spin Waves by Means of a Thin Magnetic Film. (T) V. A. Ignatchenko and E. V. Kuz'min. 9, 1785 (1968) [9, 2277 (1967)]

IL'IN, V. E.
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3685 (1967)]

IL'INSKII, A. I.
An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozorov. 9, 588 (1967) [9, 751 (1967)]

IMENKOV, A. N.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

INDENBOM, V. L.
Formation of Vacancies during Diffusion of Metal Atoms through a Surface Oxide Film and Influence of the Ambient Medium on the Dislocation Structure. (E) V. N. Rozhanskii, A. A. Predvoditelev, and V. L. Indenbom. 9, 593 (1967) [9, 757 (1967)]
Interaction of Dislocations at Nodes and the Equilibrium of Dislocations. (T) V. L. Indenbom and G. N. Dubnova. 9, 915 (1967) [9, 1171 (1967)]

IOFFE, A. V.
Effect of Various Impurities on the Thermal Conductivity of the Germanium Lattice. (E) A. V. Ioffe. 9, 1914 (1968) [9, 2439 (1967)]

IOFFE, I. V.
Theory of the Acoustoelectric Effect in Dielectrics. (T) I. V. Ioffe. 9, 740 (1967) [9, 946 (1967)]
Effect of an External Electric Field on the Absorption of Sound in a Dielectric. (T) I. V. Ioffe and B. I. Shklovskii. 9, 1660 (1968) [9, 2116 (1967)]
Theory of the Interaction of Charged Particles with a Dielectric. (T) I. V. Ioffe. 9, 2161 (1968) [9, 2748 (1967)]
The Theory of Electrical Conductivity of Crystals Having Large Dielectric Constants. (T) I. V. Ioffe. 9, 2182 (1968) [9, 2775 (1967)]

IOFFE, V. A.
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Erbium and Ytterbium. (E) A. A. Antipin, Z. N. Zonn, V. A. Ioffe, A. N. Katyshev, and L. Ya. Shekun. 9, 521 (1967) [9, 671 (1967)]
Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3369 (1967)]

IONOV, L. N.
Photoconductivity of Amorphous Selenium Films at 10^{16} cps. (E) Yu. A. Cherkasov and L. N. Ionov. 9, 722 (1967) [9, 930 (1967)]

IONOV, P. V.
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

IOSILEVSKII, Ya. A.
Dynamics of Diatomic Crystals and Simple Layer Structures. (T) Ya. A. Iosilevskii. 9, 159 (1967) [9, 215 (1967)]
Thermal Equation of State of Solid Solutions. (T) Ya. A. Iosilevskii. 9, 2090 (1968) [9, 2681 (1967)]

IRKHIN, Yu. P.
Correction to the Paper of Yu. P. Irkhin and V. G. Postovalov "Types of Spin-Orbital Interactions and the Spontaneous Hall Effect at Low Temperatures". (T) Yu. P. Irkhin and V. G. Postovalov. 9, 989 (1967) [9, 1262 (1967)]

ISHCHUK, V. A.
Investigation of the Process of Sorption of Oxygen on (100) and (110) Faces of a Tungsten Single Crystal Using the Electron-Stimulated Desorption Effect. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 623 (1967) [9, 797 (1967)]
Mechanism and Kinetics of the Process of Sorption of Oxygen on the (111) Face of a Tungsten Single Crystal. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 1992 (1968) [9, 2529 (1967)]
Mechanism of Electron-Stimulated Desorption of Oxygen from the Surface of Tungsten. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 2638 (1968) [9, 3347 (1967)]

ISMAILOV, S. A.
Microwave Dielectric Properties of Ferrite Spinels. (E) A. A. Samokhvalov, S. A. Ismailov, and A. A. Obukhov. 9, 688 (1967) [9, 884 (1967)]

ISMAILOV, Z. A.
Resistance of p-Type InSb in a Strong Longitudinal Magnetic Field. (E) Z. A. Ismailov. 9, 514 (1967) [9, 665 (1967)]

ISUPOV, V. A.
Orientational Dielectric Polarization of a $PbNb_2O_6$ Type Ferroelectric from Reorientation of 180 and 90° Domains. (T) V. A. Isupov. 9, 1105 (1967) [9, 1417 (1967)]
Dielectric Polarization and Thermal Expansion of Polarized Ceramic Samples of the $PbTiO_3-PbZrO_3-PbMg_{0.5}W_{0.5}O_3$ System. (E) Yu. E. Stolypin and V. A. Isupov. 9, 2059 (1968) [9, 2619 (1967)]

IVAKIN, A. A.
Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]

IVANOV, M. A.
Effect of Localized States on the Damping of Elastic Waves in Crystals. (T) M. A. Ivanov and M. A. Krivoglaz. 9, 1388 (1967) [9, 1771 (1967)]
Coherent Effects in Crystals Containing Electron Impurity Centers. (T) M. A. Ivanov. 9, 1731 (1968) [9, 2206 (1967)]

IVANOV, N. R.
Behavior of the Fundamental Absorption Edge of Ferroelectric Hydrosolenites in the Vicinity of Phase Transitions. (E) N. R. Ivanov and K. A. Verkhovskaya. 9, 2337 (1968) [9, 2974 (1967)]

IVANOV, O. A.
Influence of Thermomagnetic Treatment on the Processes of Magnetization of Cobalt Ferrite Powders. (E) Ya. S. Shur, O. A. Ivanov, and E. V. Shtol'ts. 9, 30 (1967) [9, 42 (1967)]
Characteristics of the Process of Magnetization Reversal and the Nature of Coercive Force of Cobalt Ferrite Powders. (E) O. A. Ivanov, Ya. S. Shur, and E. V. Shtol'ts. 9, 857 (1967) [9, 1098 (1967)]

IVANOV, V. G.
Investigation of the Field Emission of Electrons from Germanium. (E) V. G. Ivanov, G. N. Fursei, and L. L. Sokol'skaya. 9, 895 (1967) [9, 1144 (1967)]
Autoelectronic Emission from p-Silicon Cleaned with a Desorption Field. (E) G. N. Fursei and V. G. Ivanov. 9, 1421 (1967) [9, 1812 (1967)]

IVERONOVA, V. I.
X-Ray Determination of Dispersion Curves of the Ionic Crystals KCl and KI. (E) V. I. Iveronova, Parangtopo, and A. P. Zvyagina. 9, 1265 (1967) [9, 1609 (1967)]

IZYUMOV, Yu. A.
Impurity Atom in a Complex Ferromagnetic Structure. (T) Yu. A. Izyumov and M. V. Medvedev. 9, 435 (1967) [9, 547 (1967)]

JELÉNSKI, A.
Remarks on Meshcheryakov's Paper "The Susceptibility of a Four-Level Paramagnetic System under Step-by-Step Conditions at Saturation." (T) A. Jeléński and Z. Szymszak. 9, 1905 (1968) [9, 2432 (1967)]

KABALKINA, S. S.
Investigation of $\alpha \rightleftharpoons \beta$ Transition in GeTe–SnTe Alloys at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 9, 2527 (1968) [9, 3208 (1967)]

KACHURIN, G. A.
Bombardment of Thin CdTe Films with Indium Ions. (E) G. A. Kachurin, A. E. Gorodetskii, Yu. V. Loburets, and L. S. Smirnov. 9, 375 (1967) [9, 494 (1967)]
Irradiation of Thin Layers of CdTe by Cadmium Ions. (E) L. S. Smirnov, G. A. Kachurin, and A. E. Gorodetskii. 9, 564 (1967) [9, 719 (1967)]

KADIGROBOV, A. M.
Theory of Interband Magnetic Breakdown in Metals. (T) A. A. Slutskin and A. M. Kadigrobov. 9, 138 (1967) [9, 184 (1967)]

KADOMTSEVA, A. M.
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]

KADYSHEVICH, A. E.
Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Beilin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Podd'yakov. 9, 1467 (1968) [9, 1861 (1967)]

KAGAN, V. D.
Theory of the Acoustoelectric Effect. (T) V. D. Kagan. 9, 2591 (1968) [9, 3293 (1967)]

KAGANOV, M. I.
Theory of the Absorption of Ultrasound by Graphite. (T) M. I. Kaganov and A. I. Semenenko. 9, 884 (1967) [9, 1129 (1967)]
A Contribution to the Kinetic Theory of Acoustic Absorption in Metals. (T) M. I. Kaganov and V. G. Peschanskii. 9, 2810 (1968) [9, 3570 (1967)]

KALABEGISHVILI, T. L.
EPR of Colloidal Lithium in Neutron-Irradiated LiF Crystals. (E) L. I. Dzhordzhishvili, T. L. Kalabegishvili, N. G. Politov, and S. V. Sobolevskaya. 9, 2348 (1968) [9, 2986 (1967)]

KALASHNIKOV, S. G.
Effect of Traps on the Amplification of Ultrasound in Cadmium Sulfide. (E) S. G. Kalashnikov, A. I. Morozov, and B. A. Stankovskii. 9, 670 (1967) [9, 859 (1967)]

KALASHNIKOV, V. P.
Theory of Spin-Lattice Relaxation of Conduction Electrons in Semiconductors. (T) V. P. Kalashnikov. 9, 488 (1967) [9, 634 (1967)]
Nuclear Spin Polarization by a Flux of Hot Electrons in a Quantizing Magnetic Field. (T) V. P. Kalashnikov. 9, 976 (1967) [9, 1250 (1967)]

KAL'VENAS, S. P.
Recombination of Hot Carriers on a Real Surface of n-Type Germanium. (E) S. P. Kal'venas, L. A. Klimka, and Yu. K. Pozhela. 9, 729 (1967) [9, 936 (1967)]
Heating of Carriers in Thin Samples of Germanium. (E) S. P. Kal'venas and Yu. K. Pozhela. 9, 997 (1967) [9, 1270 (1967)]

KANEEV, M. A.
Radiation-Stimulated Diffusion in Cadmium Sulfide. (E) S. V. Starodubtsev, O. R. Niyazova, and M. A. Kaneev. 9, 679 (1967) [9, 872 (1967)]

KAPLYANSKII, A. A.
Deformational Splitting of Luminescence Spectrum Lines and the Structures of Exchange-Linked Pairs of Chromium Ions in Ruby. (E/T) A. A. Kaplyanskii and A. K. Przhevuskii. 9, 190 (1967) [9, 257 (1967)]
Linear Stark Effect in the U-Band of Ruby. (E) A. A. Kaplyanskii and V. N. Medvedev. 9, 2121 (1968) [9, 2704 (1967)]

KARAGEORGII-ALKALAEV, P. M.
Theory of Kinetic Oscillations in Semiconductors. (T) P. M. Karageorgii-Alkalaev and A. Yu. Leiderman. 9, 1691 (1968) [9, 2151 (1967)]

KARAPETYAN, G. O.
Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]

KARATAEVA, A. Kh.
Effect of Temperature on Gd^{3+} Impurity Centers in SrF_2. (E) F. Z. Gil'fanov, A. Kh. Karataeva, and A. L. Stolov. 9, 2172 (1968) [9, 2758 (1967)]

KARAVAEV, G. F.
Stability of a Static Electric Inhomogeneity in a Semiconductor Possessing a Negative Differential Resistivity. (T) G. F. Karavaev. 9, 2836 (1968) [9, 3604 (1967)]

KARDASHEV, B. K.
Temperature Dependence of the Elastic Constants of Sodium Iodide. (E) B. K. Kardashev and S. P. Nikanorov. 9, 747 (1967) [9, 952 (1967)]
527 (1967) [9, 676 (1967)]
Temperature Dependence of the Elastic Constants of Sodium Iodide. (E) B. K. Kardashev and S. P. Nikanorov. 9, 747 (1967)

KARIMOV, I.
A Lattice-Dynamical Investigation of the Hydrides CeH_2, CeH_3, ThH_2, and $UH_{2.7}$ Using Inelastic Scattering of Cold Neutrons. (E) B. K. Kardashev and S. P. Nikanorov. 9, 747 (1967) [9, 952 (1967)] and N. A. Chernoplekov. 9, 1366 (1967) [9, 1740 (1967)]

Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1566 (1968) [9, 1991 (1967)]

KARPENKO, I. V.
Sign of the Photoadsorption Effect in Semiconductors during the Absorption of Light by the Exciton Mechanism. (T) F. F. Vol'kenshtein and I. V. Karpenko. 9, 308 (1967) [9, 403 (1967)]

KARPOVICH, I. A.
High-Voltage Photo-emf Effect in Amorphous Films of Sb_2S_3. (E) I. A. Karpovich, M. V. Shilova, and K. N. Akatova. 9, 2377 (1968) [9, 3014 (1967)]

KARPUS, A. S.
Dielectric Properties of Sb_2S_3 Crystals. (E) I. P. Grigas and A. S. Karpus. 9, 2265 (1968) [9, 2882 (1967)]
Investigation of the Anomalous Dispersion of the Permittivity of Sb_2S_3 and SbSI Crystals at Microwave Frequencies. (E) I. P. Grigas and A. S. Karpus. 9, 2270 (1968) [9, 2887 (1967)]

KARPUSHIN, A. A.
Possible Application of Surface Elastic Waves to the Investigation of the Surface Properties of Semiconductors. (T) A. A. Karpushin and S. K. Savvinykh. 9, 893 (1967) [9, 1141 (1967)]

KARPUZOV, D. S.
Reflection of Ions Obliquely Incident on a Single Crystal. (T) V. E. Yurasova and D. S. Karpuzov. 9, 1971 (1968) [9, 2508 (1967)]

KARYAGIN, S. V.
Combinatorial Method for Calculating the Mössbauer Hyperfine Spectrum. (T) S. V. Karyagin. 9, 1252 (1967) [9, 1590 (1967)]
Equations for the Sums of the Intensities in the Mössbauer Spectra. (T) S. V. Karyagin. 9, 1979 (1968) [9, 2514 (1967)]

KASAGANOVA, M. G.
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

KASHCHEEV, V. N.
Influence of a Magnetic Field on the Thermal Conductivity of a Ferroelectric at Low Temperatures. (T) V. N. Kashcheev and A. E. Shvets. 9, 1640 (1968) [9, 2091 (1967)]

KASHKAI, A. D.
Photoemission from Additively Colored KCl Crystals. (E) A. N. Arsen'eva-Geil', A. D. Kashkai, and B. A. Kazenov. 9, 995 (1967) [9, 1269 (1967)]

KASIMOV, S.
Influence of Hydrostatic Pressure on the Electrical Properties of Single Crystals of the Solid Solution 0.85PbTe + 0.15PbS. (E) S. Kasimov, A. A. Averkin, and A. R. Regel'. 9, 99 (1967) [9, 134 (1967)]
Optical Width of the Forbidden Band in PbTe–PbS Solutions. (E) S. Kasimov, A. R. Regel', and V. K. Subashiev. 9, 2885 (1968) [9, 3653 (1967)]

KASK, N. E.
The Displacement of F^- Ions in CaF_2 Crystals by γ Irradiation. (E) N. E. Kask and L. S. Kornienko. 9, 1670 (1968) [9, 2127 (1967)]
Orthorhombic EPR Spectrum of a Pair of Interacting Nd^{3+} Ions in SrF_2. (E) N. E. Kask and L. S. Kornienko. 9, 1795 (1968) [9, 2291 (1967)]

KASPEROVICH, N. S.
The Photodielectric Effect in Compensated Germanium. (E) N. S. Kasperovich, B. M. Nikolaev, and Ya. A. Oksman. 9, 343 (1967) [9, 449 (1967)]

KATAMARAN, G. I.
Effect of UHF Magnetic Field Polarization on the Instability Threshold of Spin Vibrations. (T) L. V. Kitaev, A. A. Goncharova, and G. I. Katamaran. 9, 246 (1967) [9, 330 (1967)]

KATULIN, V. A.
GaAs Semiconductor Laser Optically Excited by Radiation Having Energy Close to the Forbidden-Band Width. (E/T) N. G. Basov, A. Z. Grasyuk, V. F. Efimkov, and V. A. Katulin. 9, 65 (1967) [9, 88 (1967)]

KATYSHEV, A. N.
Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Erbium and Ytterbium. (E) A. A. Antipin, Z. N. Zonn, V. A. Ioffe, A. N. Katyshev, and L. Ya. Shekun. 9, 521 (1967), [9, 671 (1967)]
Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]
Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Dysprosium. (E) Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1682 (1968) [9, 2138 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]
Spin Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]

KAZAKOV, A. E.
Consideration of Partial Phonon Reflection from Boundaries in the Calculation of the Low-Temperature Thermal Conductivity of Dielectrics. (T) A. E. Kazakov and É. L. Nagaev. 9, 1255 (1967) [9, 1594 (1967)]

KAZENOV, B. A.
Photoemission from Additively Colored KCl Crystals. (E) A. N. Arsen'eva-Geil', A. D. Kashkai, and B. A. Kazenov. 9, 995 (1967) [9, 1269 (1967)]

KAZLAUSKAS, P. A.
Application of Schwinger's Variational Principle to the Calculation of Kinetic Coefficients. (T) P. A. Kazlauskas and I. B. Levinson. 9, 2760 (1968) [9, 3504 (1967)]

KECHIN, V. V.
Galvanomagnetic Effects in Antimony and the Pressure Dependence of the Energy Spectrum. (T/E) V. V. Kechin. 9, 2828 (1968) [9, 3595 (1967)]

KHABIBULLIN, B. M.
Nonresonance Magnetic Absorption of Ultrasound by Nuclei in a Metal. (T/E) B. M. Khabibullin. 9, 800 (1967) [9, 1020 (1967)]
Temperature Dependence of the EPR Line Width of Paramagnetic Impurities in Metals. (T) B. M. Khabibullin. 9, 1478 (1968) [9, 1874 (1967)]

KHACHATURYAN, A. G.
Microscopic Theory of Diffusion in Crystalline Solid Solutions and the Time Evolution of the Diffuse Scattering of X Rays and Thermal Neutrons. (T) A. G. Khachaturyan. 9, 2040 (1968) [9, 2594 (1967)]
Theoretical Analysis of the Interaction Energy of Interstitial Atoms in Connection with Elastic Deformations of the Crystal Lattice. (T) A. G. Khachaturyan. 9, 2249 (1968) [9, 2861 (1967)]

KHAIMOVICH, F. P.
Influence of the Crystal Field on Angular γ –γ -Correlation in Paramagnets. (T) F. P. Khaimovich. 9, 1381 (1967) [9, 1603 (1967)]

KHAIMOV-MAL'KOV, V. Ya.
Relationship between the Damage of Ruby Crystals during Laser Emission and the Optical Homogeneity. (E) E. M. Akulenok, V. S. Papkov, and V. Ya. Khaimov-Mal'kov. 9, 1627 (1968) [9, 2075 (1967)]

KHAINOVSKAYA, V. V.
Interaction between Radiations Defects and Dislocations in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 9, 1603 (1968) [9, 2043 (1967)]

KHALILOV, Kh. M.
Absorption of Ultrasonic Waves in a Tellurium Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 9, 2290 (1968) [9, 2912 (1967)]

Absorption of Ultrasound by Dislocations in Deformed KCl Crystals. (E) Kh. M. Khalilov and A. I. Agnev. 9, 2143 (1968) [9, 2729 (1967)]

KHANKINA, S. I.
Excitation of Surface Electromagnetic Waves in Semiconductors. (T) S. I. Khankina and V. M. Yakovenko. 9, 443 (1967) [9, 578 (1967)]
Theory of Surface Waves in Solids. (T) S. I. Khankina and V. M. Yakovenko. 9, 2313 (1968) [9, 2943 (1967)]

KHANSEVAROV, R. Yu.
Formation of Structure Defects during Low-Temperature Irradiation of Indium Antimonide with X Rays. (E) B. Chelustka, R. Yu. Khansevarov, T. V. Mashovets, and I. R. Kozlova. 9, 253 (1967) [9, 336 (1967)]
Concerning the Effect of Thermal Defects on the Radiation Stability of Germanium. (E) T. V. Mashovets, S. M. Ryvkin, and R. Yu. Khansevarov. 9, 407 (1967) [9, 535 (1967)]

KHARCHENKO, N. F.
Magnetoresonance Faraday Effect in the Antiferromagnets MnF_2 and $RbMnF_3$. (E) N. F. Kharchenko and V. V. Eremenko. 9, 1302 (1967) [9, 1655 (1967)]

KHARCHENKO, V. A.
Effect of Electron and γ Irradiation on VK-2 and VK-4 Type "Variconds." (E) I. I. Kuz'min, S. P. Solov'ev, T. N. Verbitskaya, and V. A. Kharchenko. 9, 713 (1967) [9, 918 (1967)]

KHARIN, G. G.
Polymorphic Transitions Caused by Crushing of Zinc Sulfide Phosphor Crystals and the Influence of These Transitions on Luminescence Properties. (E) E. A. Poplavskaya, G. G. Kharin, and A. E. Bryukhanov. 9, 2757 (1968) [9, 3501 (1967)]

KHARITONOV, E. V.
Correction to the Paper of L. I. Korovin and E. V. Kharitonov "Theory of the Form of the Interband Magnetooptical Absorption Lines for the Case of Elastic Scattering." (T) L. I. Korovin and E. V. Kharitonov. 9, 988 (1967) [9, 1262 (1967)]

KHARUS, G. I.
Oscillations of the Phonon Radiation Power in a Quantizing Magnetic Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 1150 (1967) [9, 1473 (1967)]
Effect of Optical-Phonon Heating on the Magnetophonon Resonance in a Strong Electric Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 2256 (1968) [9, 2870 (1967)]

KHEIFETS, M. I.
Excitation of Electromagnetic Waves in Ionic Semiconductors by an Electron Beam. (T) M. I. Kheifets. 9, 241 (1967) [9, 322 (1967)]

KHIL'KO, G. I.
Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. (T/E) K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 9, 1553 (1968) [9, 1974 (1967)]

KHOMSKII, D. I.
Insulator–Metal Phase Transitions in Antiferromagnets. (T) L. N. Bulaevskii and D. I. Khomskii. 9, 2422 (1968) [9, 3070 (1967)]

KHUKHRYANSKII, Yu. P.
Spiral Etch Pits in Germanium. (E) Yu. P. Khukhryanskii, M. I. Shchevelev, and B. N. Popovich. 9, 816 (1967) [9, 1042 (1967)]

KHUTSISHVILI, G. R.
Heating of Carriers in Cyclotron and Combined Resonances. (T) G. E. Gurgenishvili and G. R. Khutsishvili. 9, 1193 (1967) [9, 1523 (1967)]

KIKVIDZE, R. R.
Excitation of Electromagnetic Waves in a Solid-State Plasma in the Presence of a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze, A. A. Rukhadze, and E. P. Fetisov. 9, 1055 (1967) [9, 1349 (1967)]

KINK, R. A.
Capture of Holes by Tl^+ Centers in KI:Tl. (E) R. A. Kink and G. G. Lilid'ya. 9, 1316 (1967) [9, 1674 (1967)]

KIRICHENKO, V. V.
Stabilization of Quenched-In Stacking Fault Tetrahedra in Copper Containing Aluminum as an Impurity. (E) V. N. Rozhanskii, V. V. Kirichenko, and A. A. Predvoditelev. 9, 131 (1967) [9, 175 (1967)]

KIRILLOVA, I. V.
Thermal Conductivity in a Two-Dimensional Lattice. (T) I. V. Kirillova, I. L. Korobova, and B. Ya. Moizhes. 9, 1003 (1967) [9, 1281 (1967)]

KIRIN, I. S.
Electron Paramagnetic Resonance of Phthalocyanines of Rare Earth Elements. (E) I. S. Kirin, Yu. L. Shelekhin, and P. N. Moskalev. 9, 1461 (1967) [9, 1852 (1967)]

KISELEVA, M. N.
Radiochemical Reduction of MeF_3–RE^{3+} Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 9, 2774 (1968) [9, 3523 (1967)]

KISHKIN, S. T.
Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. (E) S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov. 9, 1488 (1968) [9, 1887 (1967)]

KITAEV, L. V.
Effect of UHF Magnetic Field Polarization on the Instability Threshold of Spin Vibrations. (T) L. V. Kitaev, A. A. Goncharova, and G. I. Katamaran. 9, 246 (1967) [9, 330 (1967)]

KITAIGORODSKII, A. I.
Investigation of the Characteristic Temperature of a Molecular Crystal. Tensor Derivatives of the Characteristic Temperature. (E) B. D. Koreshkov and A. I. Kitaigorodskii. 9, 1680 (1968) [9, 2137 (1967)]

KIV, A. E.
Radiation-Stimulated Migration Processes in Solids. (T) A. E. Kiv and F. T. Umarova. 9, 1745 (1968) [9, 2235 (1967)]

KIZEL', V. A.
Spatial Dispersion Effects in Gyrotropic Crystals. (E/T) V. A. Kizel', Yu. I. Krasilov, and V. N. Shamraev. 9, 571 (1967) [9, 728 (1967)]

KLESHCHEV, G. V.
The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

KLIMKA, L. A.
Recombination of Hot Carriers on a Real Surface of n-Type Germanium. (E) S. P. Kal'venas, L. A. Klimka, and Yu. K. Pozhela. 9, 729 (1967) [9, 936 (1967)]

KLOTSMAN, S. M.
Self-Diffusion of Cs^{134} and I^{131} in Single Crystals and Polycrystalline Samples of Cesium Iodide. (E) S. M. Klotsman, I. P. Polikarpova, A. N. Timofeev, and I. Sh. Trakhtenberg. 9, 1956 (1968) [9, 2487 (1967)]

KLOTYN'SH, É. É.
Negative Magnetoresistance in Cu-Doped n-Type GaAs. (E/T) O. V. Emel'yanenko, É. É. Klotyn'sh, T. S. Lagunova, and D. N. Nasledov. 9, 725 (1967) [9, 933 (1967)]

KLYAVIN, O. V.
Dislocation Structure of Deformation Rosettes Obtained on Sodium Chloride Single Crystals at T = 4.2°K. (E) O. V. Klyavin, A. V. Stepanov, and I. S. Kotousova. 9, 1283 (1967) [9, 1631 (1967)]
Optical Determination of the Elastic Limit of Sodium Chloride Single Crystals in the Liquid-Helium Temperature Range. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 1720 (1968) [9, 2190 (1967)]
Optical Elastic Limit of Lithium Fluoride Single Crystals in the Temperature Range 300–1.4°K. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 2008 (1968) [9, 2549 (1967)]

KLYUEV, V. P.
Propagation of 10^4 MHz Hypersound Perpendicular to the Optic Axis in $LiNbO_3:Cr^{3+}$ at Room and Helium Temperatures. (E) B. P. Smolyakov, L. M. Meil'man, V. P. Klyuev, I. A. Shpil'ko, and U. Kh. Kopvillem. 9, 2366 (1968) [9, 3002 (1967)]

KOBYAKOV, I. B.
Investigation of Electrical and Elastic Properties of Hexagonal Zinc Sulfide in the Temperature Range 1.5-300°K. (E) I. B. Kobyakov and G. S. Pado. 9, 1707 (1968) [9, 2173 (1967)]
Influence of the Conductivity on the Elastic Stiffness of Hexagonal Zinc. (E) I. B. Kobyakov. 9, 1269 (1967) [9, 1613 (1967)]
Correction to the Paper of I. B. Kobyakov "Influence of the Conductivity of the Elastic Stiffness of Hexagonal ZnS" (Soviet Physics — Solid State, Vol. 9, No. 6, pp. 1269-1271). (E) I. B. Kobyakov. 9, 2641 (1968) [9, 3350 (1967)]
KOBZAREVA, S. A.
Real Structure and Reaction Capability of Silicon Single Crystals. (E) G. I. Distler, S. A. Kobzareva, and V. S. Chudakov. 9, 200 (1967) [9, 269 (1967)]
KOCHELAEV, B. I.
Paramagnetic Resonance Spectrum in the Presence of a Strong Electron-Phonon Interaction. (T) B. I. Kochelaev. 9, 1712 (1968) [9, 2180 (1967)]
Paramagnetic Resonance Spectrum with the Electron-Phonon Interaction Taken into Consideration in the Case of Weak Coupling. (T) N. G. Koloskova and B. I. Kochelaev. 9, 2317 (1968) [9, 2948 (1967)]
Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]
KOGAN, A. V.
Dependence of the Effective Field at Impurity Element Nuclei on the Ionic Radius. (E) A. V. Kogan. 9, 251 (1967) [9, 336 (1967)]
KOGAN, Sh. M.
Optical Effective Mass of Electrons in Metals. (T) Sh. M. Kogan. 9, 1180 (1967) [9, 1510 (1967)]
Electrical Fluctuations in a Solid-State Plasma in a Strong Electric Field. (T) Sh. M. Kogan and A. Ya. Shul'man. 9, 1771 (1968) [9, 2259 (1967)]
KOIKOV, S. N.
A Comparison of Fundamental Theories on Polarization of Ionic Crystals. (T) S. N. Koikov. 9, 2292 (1968) [9, 2915 (1967)]
Analysis of the Hypothesis of Current Rise Due to Injection during Electrical Aging of Titanium-Bearing Dielectrics. (E) S. N. Koikov, A. N. Tsikin, and A. Shakirov. 9, 2777 (1968) [9, 3527 (1967)]
KOKOSHKIN, V. A.
Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2064 (1968) [9, 2625 (1967)]
KOLESNIKOV, N. V.
A Theoretical Examination of Hyperfine Structure Splitting Matrix Shifts in Cu, Ag, and Au Atoms Stabilized in a Polar Matrix (H_2O). (T/E) R. A. Zhitnikov and N. V. Kolesnikov. 9, 121 (1967) [9, 162 (1967)]
KOLODNYI, G. Ya.
Concentration Quenching of Erbium Luminescence in Yttrium-Aluminum Garnet. (E) R. V. Bakradze, G. M. Zverev, G. Ya. Kolodnyi, G. P. Kuznetsova, and A. M. Onishchenko. 9, 733 (1967) [9, 939 (1967)]
KOLOMIETS, B. T.
Fluctuation Levels in the Glassy Semiconductor $Tl_2Se \cdot As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. 9, 19 (1967) [9, 27 (1967)]
KOLOMOETS, N. V.
Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]
Effect of Interband Interaction of Light and Heavy Holes on the Lorenz Number in Doped p-PbTe Single Crystals in the High- and Low-Temperature Regions. (E) M. N. Vinogradova, N. V. Kolomoets, I. A. Smirnov, and L. M. Sysoeva. 9, 2368 (1968) [9, 3004 (1967)]
KOLOSKOVA, N. G.
Paramagnetic Resonance Spectrum with the Electron-Phonon Interaction Taken into Consideration in the Case of Weak Coupling. (T) N. G. Koloskova and B. I. Kochelaev. 9, 2317 (1968) [9, 2948 (1967)]
KOLTUN, V. A.
Mössbauer and X-Ray Investigations of a Finely Divided Fe + 12 at.% Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Sundalev. 9, 2476 (1968) [9, 3141 (1967)]
KOMAROV, G. V.
Peltier Coefficient for a Boundary Separating Solid and Liquid Phases of Tin- and Tellurium-Doped Bismuth. (E) G. V. Komarov and A. R. Regel'. 9, 2384 (1968) [9, 3021 (1967)]
KONOBEEV, Yu. V.
Theory of Surface Excitons in Molecular Crystals. (E) Yu. V. Konobeev. 9, 264 (1967) [9, 349 (1967)]
KONOROV, P. P.
Modulation of Light Absorption in Germanium at the Boundary with Electrolytes. (E) P. P. Konorov and S. V. Shchegolikhina. 9, 1661 (1968) [9, 2117 (1967)]
KONOVALOV, N. D.
Adsorption and Electron Emission of Cesium Films on Iridium. (E) N. D. Konovalov and V. I. Makukha. 9, 2108 (1968) [9, 2686 (1967)]
KONSTANTINOV, O. V.
Conditions for the Existence of Slow and Fast Recombination Waves in Semiconductors. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 9, 1381 (1967) [9, 1761 (1967)]
Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. (T) S. L. Ginsburg, O. V. Konstantinov, and V. I. Perel'. 9, 1684 (1968) [9, 2139 (1967)]
Theory of Acoustic Plasma Waves in Bismuth. (T) O. V. Konstantinov and V. I. Perel'. 9, 2409 (1968) [9, 3051 (1967)]
KONTOROVA, T. A.
Plastic Deformation of Germanium in an Electric Field. (T) T. A. Kontorova. 9, 961 (1967) [9, 1235 (1967)]
KOPTEV, Yu. I.
Production of Tubes from Germanium. (E) Yu. I. Koptev and A. V. Stepanov. 9, 2370 (1968) [9, 3007 (1967)]
KOPTSIK, V. A.
Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Koptsik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]
Absorption of Ultrasound during Phase Transitions in Triglycine Sulfate-Type Ferroelectrics. (E) K. A. Minaeva, A. P. Levanyuk, B. A. Strukov, and V. A. Koptsik. 9, 950 (1967) [9, 1220 (1967)]
KOPVILLEM, V. Kh.
Fine Structure of the Dipole Nuclear Acoustic Resonance of Al^{27} in Ruby. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, and U. Kh. Kopvillem. 9, 278 (1967) [9, 361 (1967)]
Theory of Ferromagnetic Free Induction and Echo. (T) U. Kh. Kopvillem. 9, 813 (1967) [9, 1038 (1967)]
Super-Nonradiative State of Matter. (T) U. Kh. Kopvillem and V. R. Nagibarov. 9, 1008 (1967) [9, 1297 (1967)]
Theory of Cyclotron Echo. (T) Ya. Ya. Asadullin and U. Kh. Kopvillem. 9, 2150 (1968) [9, 2737 (1967)]
Propagation of 10^4 MHz Hypersound Perpendicular to the Optic Axis in $LiNbO_3:Cr^{3+}$ at Room and Helium Temperatures. (E) B. P. Smolyakov, L. M. Meil'man, V. P. Klyuev, I. A. Shpil'ko, and U. Kh. Kopvillem. 9, 2366 (1968) [9, 3002 (1967)]
EPR Line Shape and Acoustic Magnetic Resonance of Cr^{3+} in Al_2O_3 in the Presence of an Electric Field. (T) U. Kh. Kopvillem and B. P. Smolyakov. 9, 2664 (1968) [9, 3375 (1967)]
KOPYLOV, V. V.
Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR Lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1967) [9, 1403 (1967)]

KORENBLIT, I. Ya.
Indirect Interaction of Electrons and Holes through Phonons and Its Effect on the Kinetic Properties of Semimetals. (T) L. É. Gurevich and I. Ya. Korenblit. 9, 932 (1967) [9, 1195 (1967)]

KORESHKOV, B. D.
Calculation of the Characteristic Temperature of Organic Crystals from Elastic Constants. (E) K. S. Aleksandrov, V. F. Teselenko, and B. D. Koreshkov. 9, 579 (1967) [9, 739 (1967)]
Investigation of the Characteristic Temperature of a Molecular Crystal. Tensor Derivatives of the Characteristic Temperature. (E) B. D. Koreshkov and A. I. Kitaigorodskii. 9, 1680 (1968) [9, 2137 (1967)]

KORKHMAZYAN, N. A.
A Possibility of Determining the Optical Parameters of Metals. (E/T) N. A. Korkhmazyan. 9, 870 (1967) [9, 1113 (1967)]

KORNFEL'D, M. I.
EPR Investigation of $Mn^{3+}-S_1^-$ in Sodium Chloride Crystals. (E) M. I. Kornfel'd and Yu. N. Tolparov. 9, 1607 (1968) [9, 2047 (1967)]

KORNIENKO, L. S.
The Displacement of F^- Ions in CaF_2 Crystals by γ Irradiation. (E) N. E. Kask and L. S. Kornienko. 9, 1670 (1968) [9, 2127 (1967)]
Orthorhombic EPR Spectrum of a Pair of Interacting Nd^{3+} Ions in SrF_2. (E) N. E. Kask and L. S. Kornienko. 9, 1795 (1968) [9, 2291 (1967)]

KOROBKO, G. V.
Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3198 (1967)]

KOROBOVA, I. L.
Thermal Conductivity in a Two-Dimensional Lattice. (T) I. V. Kirillova, I. L. Korobova, and B. Ya. Moizhes. 9, 1003 (1967) [9, 1281 (1967)]

KOROL'KOV, V. I.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

KOROVIN, L. I.
Correction to the Paper of L. I. Korovin and E. V. Kharitonov "Theory of the Form of the Interband Magnetooptical Absorption Lines for the Case of Elastic Scattering." (T) L. I. Korovin and E. V. Kharitonov. 9, 988 (1967) [9, 1262 (1967)]

KORSUNSKAYA, N. E.
Luminescence of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]

KORTOV, V. S.
Exoelectronic Emission during Phase Transitions in Ferroelectric Materials. (E) V. S. Kortov and R. I. Mints. 9, 1436 (1967) [9, 1828 (1967)]
Influence of Plastic Deformation on the Magnitude of the Mössbauer Effect. (E) V. S. Kortov, R. I. Mints, and Yu. N. Sekisov. 9, 2169 (1968) [9, 2755 (1967)]

KORZO, V. F.
Conductivity of Thin Indium Oxide Films. (E) V. F. Korzo and L. A. Ryabova. 9, 745 (1967) [9, 950 (1967)]
Electric Strength of Al_2O_3 Films. (E) V. F. Korzo. 9, 2167 (1968) [9, 2753 (1967)]

KOSEVICH, A. M.
Effect of Irradiation on the Diffusion-Dislocational Flow of Crystals. (T) A. M. Kosevich, Z. K. Saralidze, and V. V. Slezov. 9, 697 (1967) [9, 895 (1967)]
Elastic and Magnetic Fields around Dislocations in Ferromagnets. (T) A. M. Kosevich and É. P. Fel'dman. 9, 2696 (1968) [9, 3415 (1967)]

KOSEVICH, V. M.
Defects in the Crystal Structure of Condensed Bismuth Films. (E) A. I. Fedorenko, L. S. Palatnik, and V. M. Kosevich. 9, 2238 (1968) [9, 2846 (1967)]

KOSHKIN, V. M.
Thermodynamic Model for Dissolution of Impurities and Deviations from Stoichiometry in Crystals Having Stoichiometric Vacancies. (T) V. M. Koshkin, Yu. A. Freiman, and L. V. Atroshchenko. 9, 2460 (1968) [9, 3120 (1967)]

KOSILOV, A. T.
Recovery of Plastically Deformed Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 167 (1967) [9, 227 (1967)]
High-Temperature Internal Friction of Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 1218 (1967) [9, 1547 (1967)]

KOST, M. E.
A Lattice-Dynamical Investigation of the Hydrides CeH_2, CeH_3, ThH_2, and $UH_{2.3}$ Using Inelastic Scattering of Cold Neutrons. (E) I. Karimov, M. G. Zemlyanov, M. E. Kost, V. A. Somenkov, and N. A. Chernoplekov. 9, 1366 (1967) [9, 1740 (1967)]

KOSTSOV, É. G.
Mechanism of Current Conduction in Thin-Film Metal–Dielectric–Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 1332 (1967) [9, 1695 (1967)]
Current Instability in Thin-Film Metal–Dielectric–Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 2905 (1968) [9, 3672 (1967)]

KOTOUSOVA, I. S
Dislocation Structure of Deformation Rosettes Obtained on Sodium Chloride Single Crystals at T = 4.2°K. (E) O. V. Klyavin, A. V. Stepanov, and I. S. Kotousova. 9, 1283 (1967) [9, 1631 (1967)]

KOTOV, B. A.
Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]
Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]

KOTYUKOV, Yu. N.
Measurement of the Magnetostriction Constants of Ferrite Single Crystals by the Ferromagnetic Resonance Method. (T/E) Yu. N. Kotyukov. 9, 899 (1967) [9, 1149 (1967)]

KOVALENKO, E. S.
Pseudo-Stark Splitting of Cr^{3+} EPR Line in $CdWO_4$. (T/E) M. I. Bichurin, E. S. Kovalenko, and V. G. Kozlov. 9, 1187 (1967) [9, 1518 (1967)]

KOVALENKO, S. I.
Electron-Diffraction Investigation of the Structure of Thin Solid Argon Films. (E) S. I. Kovalenko and N. N. Bagrov. 9, 2396 (1968) [9, 3032 (1967)]

KOVALEV, A. I.
Internal Friction in Zirconium Dioxide at Temperatures in the Range 20–1250°C. (E) A. I. Kovalev and V. I. Pechenezhskii. 9, 278 (1967) [9, 363 (1967)]

KOVALEVSKAYA, Yu. A.
Thermal Expansion of Naphthalene at Low Temperatures. (E) Yu. A. Kovalevskaya. 9, 258 (1967) [9, 344 (1967)]
Hall Effect and Electrical Resistivity of Vanadium at 20–300°K. (E) E. B. Amitin, Yu. A. Kovalevskaya, and Yu. Z. Kovdrya. 9, 704 (1967) [9, 905 (1967)]
Electrical Resistance of Chromium near the Néel Point. (E) E. B. Amitin and Yu. A. Kovalevskaya. 9, 2145 (1968) [9, 2731 (1967)]

KOVARSKII, V. A.
A Quasiclassical Estimate of the Cross Section for Multiphonon Trapping in the Non-Condon Approximation for the Deformation Interaction. (T) É. P. Sinyavskii and V. A. Kovarskii. 9, 1142 (1967) [9, 1464 (1967)]

KOVDRYA, Yu. Z.
Hall Effect and Electrical Resistivity of Vanadium at 20–300°K. (E) E. B. Amitin, Yu. A. Kovalevskaya, and Yu. Z. Kovdrya. 9, 704 (1967) [9, 905 (1967)]

KOV'EV, É. K.
X-Ray Diffraction Investigation of Defects Generated in Silicon during Deep Diffusion of Phosphorus. (E) I. L. Shul'pina and É. K. Kov'ev. 9, 791 (1967) [9, 1008 (1967)]

KOZLOV, V. G.
Pseudo-Stark Splitting of Cr^{3+} EPR Line in $CdWO_4$. (T/E) M. I. Bichurin, É. S. Kovalenko, and V. G. Kozlov. 9, 1187 (1967) [9, 1518 (1967)]

KOZLOV, Yu. I.
Decomposition of a Solid Solution of Gold in Silicon. (E) Yu. I. Kozlov and R. Sh. Malkovich. 9, 384 (1967) [9, 504 (1967)]

KOZLOVA, I. R.
Formation of Structure Defects during Low-Temperature Irradiation of Indium Antimonide with X Rays. (E) B. Chelustka, R. Yu. Khansevarov, T. V. Mashovets, and I. R. Kozlova. 9, 253 (1967) [9, 338 (1967)]

KRADINOVA, L. V.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

KRAFTMAKHER, Ya. A.
Vacancy Formation and the Thermal Expansion of Platinum. (E) Ya. A. Kraftmakher. 9, 1197 (1967) [9, 1528 (1967)]
Electrical Conductivity of Nickel Close to the Curie Point. (E) Ya. A. Kraftmakher. 9, 1199 (1967) [9, 1529 (1967)]
Electrical Conductivity of Iron near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. 9, 1459 (1967) [9, 1851 (1967)]
Vacancy Formation in Copper. (E) Ya. A. Kraftmakher. 9, 1458 (1967) [9, 1850 (1967)]

KRASIL'NIKOV, O. M.
Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Bellin, Yu. Kh. Veklilov, O. M. Krasil'nikov, and V. N. Podd'yakov. 9, 1467 (1968) [9, 1861 (1967)]

KRASIL'NIKOV, V. A.
Resonance Absorption of Sound Waves in Iron Garnet Single Crystals. (E/T) K. V. Goncharov, V. A. Krasil'nikov, and V. I. Uchastkin. 9, 3671 (1968) [9, 3384 (1967)]

KRASILOV, Yu. I.
Spatial Dispersion Effects in Gyrotropic Crystals. (E/T) V. A. Kizel', Yu. I. Krasilov, and V. N. Shamraev. 9, 571 (1967) [9, 728 (1967)]

KRASKO, G. L.
Theoretical Determination of the Stacking-Fault Energy in Nontransition Metals. (T) G. L. Krasko, V. N. Tellyants, R. T. Posvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]

KRASNIKOVA, A. Ya.
Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Koptsik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]

KRAVCHENKO, V. B.
EPR of Trivalent Chromium in $YAl_3(BO_3)_4$ Crystals. (E) V. A. Atsarkin, V. B. Kravchenko, and I. G. Matveeva. 9, 2648 (1968) [9, 3353 (1967)]

KRAVCHENKO, V. Ya.
Theory of the Electrical Resistivity of Metals Arising from Dislocations. (T) V. Ya. Kravchenko. 9, 653 (1967) [9, 838 (1967)]
Using Electrical Effects for Observing the Motion of Dislocations in Conducting Crystals. (T) V. Ya. Kravchenko. 9, 823 (1967) [9, 1050 (1967)]

KRESIN, V. Z.
Properties of Superconductors Having Overlapping Bands. (T) B. T. Geilikman, R. O. Zaitsev, and V. Z. Kresin. 9, 642 (1967) [9, 821 (1967)]
Thermal Properties of Superconductors with a Strong Electron-Phonon Interaction. (T/E) B. T. Geilikman and V. Z. Kresin. 9, 2453 (1968) [9, 3111 (1967)]

KRINCHIK, G. S.
Investigation of the Domain Structure of "Hypercritical" Permalloy Films by the Magnetooptical Method. (E) G. S. Krinchik, A. N. Verkhozin, and S. A. Gushchina. 9, 1812 (1968) [9, 2314 (1967)]

KRISTOFEL', N. N.
Vibrational Instability of Impurity Centers and Nonsymmetric Distortions of the Lattice. (T) N. N. Kristofel' and G. S. Zavt. 9, 1246 (1967) [9, 1582 (1967)]

KRISTYA, V.
Electrical Properties of Rutile Containing Dissolved Niobium. (E) N. P. Bogoroditskii, V. Kristya, and Ya. I. Panova. 9, 187 (1967) [9, 253 (1967)]

KRIVENKO, L. F.
Friction Forces and Surface Tension of Twinning Dislocations. (E/T) V. S. Boiko, B. I. Garber, and L. F. Krivenko. 9, 332 (1967) [9, 435 (1967)]

KRIVITSKII, V. P.
X-Ray Emission Spectrum Investigation of the Electron Structure of Elements in the Second Large Period. (E) V. V. Nemoshkalenko and V. P. Krivitskii. 9, 268 (1967) [9, 353 (1967)]

KRIVOGLAZ, M. A.
Theory of Absorption and Emission of Light by an Impurity in Ferromagnetic and Antiferromagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 349 (1967) [9, 457 (1967)]
Effect of Localized States on the Damping of Elastic Waves in Crystals. (T) M. A. Ivanov and M. A. Krivoglaz. 9, 1388 (1967) [9, 1771 (1967)]
Theory of Light Absorption and Emission by Impurity Centers in Paramagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 2114 (1968) [9, 2693 (1967)]
Influence of the Long-Range Dipole-Dipole Forces on the Attenuation and Velocity of Ultrasound in Ferroelectrics near the Second-Order Transition Point. (T) S. Ya. Geguzina and M. A. Krivoglaz. 9, 2441 (1968) [9, 3095 (1967)]

KRIVOSHCHEKOV, G. V.
Nonlinear Reflection of Light from Thin Silver Films. (E) G. V. Krivoshchekov and V. I. Stroganov. 9, 2856 (1968) [9, 3635 (1967)]

KROPOTOV, V. S.
Electron Paramagnetic Resonance of Vanadium and Chromium in CaF_2. (E/T) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 155 (1967) [9, 209 (1967)]
Detection of Ti^{3+} Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 992 (1967) [9, 1265 (1967)]
EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]
Detection of V^{2+} in SrF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2346 (1968) [9, 2984 (1967)]
EPR of Copper and Titanium Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2347 (1968) [9, 2985 (1967)]

KRUGLOV, V. I.
Drift Mobility of Carriers in Nickel Oxide. (E) V. V. Makarov, Ya. M. Ksendzov, and V. I. Kruglov. 9, 512 (1967) [9, 663 (1967)]

KRYGIN, V. M.
Scanning Electron-Microscope Observation of the Action of Light on the Potential Distribution in a p–n Junction. (E) V. N. Vertsner, Yu. V. Chentsov, and V. M. Krygin. 9, 391 (1967) [9, 512 (1967)]

KRYUKOVA, N. N.
Relation between Dislocations and Microplasmas during Avalanche Breakdown of a p–n Junction in Si. (E) I. V. Grekhov, N. N. Kryukova, and A. I. Novikov. 9, 1439 (1967) [9, 1831 (1967)]

KSENDZOV, Ya. M.
Drift Mobility of Carriers in Nickel Oxide. (E) V. V. Makarov, Ya. M. Ksendzov, and V. I. Kruglov. 9, 512 (1967) [9, 663 (1967)] 967)]

Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Makarov. 9, 828 (1967) [9, 1058 (1967)]

KUBAREV, S. I.
Multiple-Time Uncoupling for Correlation Functions. (T/E) S. I. Kubarev. 9, 305 (1967) [9, 400 (1967)]

KUCHERENKO, I. V.
Carrier Mobility and Density in Uniaxially Compressed Silicon and p-Type Germanium at Low Temperatures. (E) I. V. Kucherenko. 9, 614 (1967) [9, 784 (1967)]

KUDINOV, E. K.
Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]
Polaron Nature of the Current Carriers in Rutile (TiO_2). (T) V. N. Bogomolov, E. K. Kudinov, and Yu. A. Firsov. 9, 2502 (1968) [9, 3175 (1967)]

KUDRYASHOVA, L. V.
Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1967) [9, 1557 (1967)]

KUDRYAVTSEVA, N. V.
Determination of the Zero-Slope Point. (T) N. V. Kudryavtseva. 9, 1850 (1968) [9, 2364 (1967)]

KUDZIN, A. Yu.
Electrical Conductivity and Magnetic Susceptibility of Oxide Semiconductors Based on Vanadium Oxides. (E) A. Yu. Kudzin and I. M. Chernenko. 9, 1430 (1967) [9, 1822 (1967)]

KUKHARSKII, A. A.
Determination of Effective Mass in LaSb from the Infrared Reflection Spectrum. (E) E. V. Goncharova and A. A. Kukharskii. 9, 1214 (1967) [9, 1543 (1967)]

KUKIBNYI, Yu. A.
Theory of Sound and Drift Waves in Crystals Having a Large Dielectric Constant. (T) Yu. A. Kukibnyi and V. N. Piskovoi. 9, 1737 (1968) [9, 2215 (1967)]

KUKSENKO, V. S.
Rotational Mobility of Crystallites in Oriented Kapron (Polycaprolactam). (E) V. S. Kuksenko, S. Nizamidinov, and A. I. Slutsker. 9, 1569 (1968) [9, 1996 (1967)]
Formation of Submicroscopic Cracks in Loaded Oriented Amorphous-Crystalline Polymers. (E) V. S. Kuksenko, A. I. Slutsker, and A. A. Yastrebinskii. 9, 1869 (1968) [9, 2390 (1967)]

KULEEV, V. G.
Frequency and Size Resonances in Excitation of Elastic Waves. (T) K. B. Vlasov and V. G. Kuleev. 9, 2386 (1968) [9, 3022 (1967)]

KULIEV, B. I.
Resonant Frequencies in a Two-Sublattice Uniaxial Ferrite in the Noncollinear Phase. (T) B. I. Kuliev and G. M. Nedlin. 9, 2102 (1968) [9, 2678 (1967)]

KURDYUMOV, V. G.
Formation of Dislocation Structure during Deformation of Silicon-Iron Single Crystals. (E) V. G. Kurdyumov, L. M. Morgulis, and L. M. Utevskii. 9, 519 (1967) [9, 669 (1967)]

KURKIN, I. N.
Width of Paramagnetic Resonance Lines Due to Impurity Ions in Scheelite Single Crystals. (E/T) I. N. Kurkin and L. Ya. Shekun. 9, 339 (1967) [9, 444 (1967)]
Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]
Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Dysprosium. (E) Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1682 (1968) [9, 2138 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]
Spin Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]

KUSKOVA, T. V.
Effect of Heat Treatment on the Structural Perfection of NaCl(Pb) Single Crystals Grown from Solution. (E) T. V. Kuskova, E. I. Raikhel's, I. V. Smushkov, and T. V. Tyutyunnikova. 9, 718 (1967) [9, 926 (1967)]
Some Properties of the Structure of a Surface Layer on Lithium Fluoride Crystals after Annealing. (E) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 9, 2379 (1968) [9, 3016 (1967)]

KUZINA, A. A.
Neutron Diffraction Study of Atomic and Magnetic Structures of Calcium-Vanadium-Ferrite Garnet. (E) V. P. Plakhtii, G. P. Gordeev, A. A. Kuzina, and É. I. Turkevich. 9, 1762 (1968) [9, 2247 (1967)]

KUZ'MIN, E. V.
Generation of Hypersound and the Acoustic Excitation of Spin Waves by Means of a Thin Magnetic Film. (T) V. A. Ignatchenko and E. V. Kuz'min. 9, 1785 (1968) [9, 2277 (1967)]

KUZ'MIN, I. I.
Effect of Electron and γ Irradiation on VK-2 and VK-4 Type "Varicords." (E) I. I. Kuz'min, S. P. Solov'ev, T. N. Verbitskaya, and V. A. Kharchenko. 9, 713 (1967) [9, 918 (1967)]

KUZNETSOV, A. M.
Structure of the Electronic Energy Spectrum in Nonpolar Liquids. (T) R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko. 9, 1578 (1968) [9, 2007 (1967)]

KUZNETSOV, V. A.
Adsorption and Electron Emission of Molybdenum Films on a Tungsten Single Crystal. (E) V. A. Kuznetsov and B. M. Tsarev. 9, 1987 (1968) [9, 2524 (1967)]
Treatment of the Energy Loss in the Electrostatic Model of Adsorption of a Film. (T) V. A. Kuznetsov, A. P. Ovchinnikov, and B. M. Tsarev. 9, 2881 (1968) [9, 3649 (1967)]

KUZNETSOVA, E. M.
Absorption of Light in the Presence of Polarons. (T) E. M. Kuznetsova. 9, 1166 (1967) [9, 1493 (1967)]

KUZNETSOVA, G. P.
Concentration Quenching of Erbium Luminescence in Yttrium-Aluminum Garnet. (E) R. V. Bakradze, G. M. Zverev, G. Ya. Kolodnyi, G. P. Kuznetsova, and A. M. Onishchenko. 9, 733 (1967) [9, 939 (1967)]

KVASHNINA, L. B.
Influence of Thermal Oscillations on Electron Scattering in the Dynamical Theory Approximation. (T) L. B. Kvashnina, V. B. Molodkin, and E. A. Tikhonova. 9, 1306 (1967) [9, 1660 (1967)]

KVIMSADZE, M. V.
Relaxation of Effective Temperature of Current Carriers in Semiconductors. (T) M. V. Kvimsadze. 9, 682 (1967) [9, 875 (1967)]

KVIRIKADZE, A. G.
Magnetic Dipole Radiation of a Magnet. (T) V. G. Bar'yakhtar and A. G. Kvirikadze. 9, 2569 (1968) [9, 3264 (1967)]

LAGUNOVA, T. S.
Negative Magnetoresistance in Cu-Doped n-Type GaAs. (E/T) O. V. Emel'yanenko, É. É. Klotyn'sh, T. S. Lagunova, and D. N. Nasledov. 9, 725 (1967) [9, 933 (1967)]

LAINER, L. V.
Investigation of Defects Generated during the Heat Treatment of Oxygen-Bearing Silicon. (E) I. L. Shul'pina, L. V. Lainer, M. G. Mil'vidskii, and E. P. Rashevskaya. 9, 1291 (1967) [9, 1641 (1967)]

LANG, I. E.
Extension of the Applicability Limit of the Theory of Low Mobility. (T) I. E. Lang and Yu. A. Firsov. 9, 2701 (1968) [9, 3422 (1967)]

LANTSOV, V. M.
Influence of the Distribution of Correlation Times in Polymers on the NMR Line Width. (T/E) V. P. Grigor'ev, V. M. Lantsov, A. I. Maklakov, and A. A. Lantsova. 9, 2867 (1968) [9, 3635 (1967)]

LANTSOVA, A. A.
Influence of the Distribution of Correlation Times in Polymers on the NMR Line Width. (T/E) V. P. Grigor'ev, V. M. Lantsov, A. I. Maklakov, and A. A. Lantsova. 9, 2867 (1968) [9, 3635 (1967)]

LARIN, G. M.
Electron Paramagnetic Resonance of the Cu^{2+} Ion in NH_4Br. (E) G. M. Larin, I. V. Miroshnichenko, and G. K. Chirkin. 9, 529 (1967) [9, 677 (1967)]

LASHKAREV, G. V.
Magnetic Susceptibilities of Some Chalcogenides of the Rare-Earth Elements. (E) G. V. Lashkarev and A. V. Savitskii. 9, 1485 (1968) [9, 1883 (1967)]

LASHKAREV, V. E.
Determination of the Lifetime and Mobility of Nonequilibrium Holes in Cadmium Sulfide Single Crystals. (E) V. E. Lashkarev, V. K. Malyutenko, and V. A. Romanov. 9, 323 (1967) [9, 422 (1967)]

LAVROV, V. P.
Temperature Dependence of the Emission of Electrons by Ion Bombardment of Alkali-Halide Single Crystals. (E) I. A. Abroyan, I. S. Aref'eva, and V. P. Lavrov. 9, 516 (1967) [9, 667 (1967)]

LEBED', B. M.
Time Lag in a Sequence of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, S. S. Starobinets, and K. V. Shevlyagin. 9, 510 (1967) [9, 661 (1967)]
Amplitude and Time Oscillations of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, and K. V. Shevlyagin. 9, 942 (1967) [9, 1209 (1967)]
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lebed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]

LEBEDEVA, E. V.
Effect of Mn^{2+} Ions on Relaxation Processes in Ferrites. (E) E. V. Lebedeva, A. I. Pil'shchikov, and E. K. Yur'eva. 9, 237 (1967) [9, 317 (1967)]
Some Characteristics of Parametric Excitation of Spin Waves in Ferrite Single Crystals. (E) E. V. Lebedeva and A. I. Pil'shchikov. 9, 2862 (1968) [9, 3630 (1967)]

LEDNEVA, T. M.
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]

LEIDERMAN, A. Yu.
Theory of Kinetic Oscillations in Semiconductors. (T) P. M. Karageorgii-Alkalaev and A. Yu. Leiderman. 9, 1691 (1968) [9, 2151 (1967)]

LEMANOV, V. V.
Experimental Determination of the Relationship between the Intracrystalline Electric Field Gradient at the Nucleus and the Elastic Deformation of the Lattice in the Cubic Crystals NaF, NaCl, and KCl. (E) V. L. Bogdanov and V. V. Lemanov. 9, 357 (1967) [9, 489 (1967)]
Electric Field Gradient at In^{115} and Sb^{121} Nuclei in an Elastically Deformed Crystal of InSb. (E) V. L. Bogdanov and V. V. Lemanov. 9, 720 (1967) [9, 928 (1967)]

LENCHENKO, V. M.
Displacement of Atoms by a Cascade of Fast Electrons. (T) V. M. Lenchenko and É. Chadaev. 9, 2310 (1968) [9, 2939 (1967)]

LEONIDOVA, G. G.
Ferroelectric Phase Transitions in Triglycine Sulfate at Pressures up to 10 kbars. (E) G. G. Leonidova, N. P. Netesova, and T. R. Volk. 9, 454 (1967) [9, 593 (1967)]

LEUSHIN, A. M.
Symmetry of Centers and Nature of Excited Stark Levels of Gd^{3+} Ion in CaF_2 Crystals. (E) F. Z. Gil'fanov, A. M. Leushin, and A. L. Stolov. 9, 1061 (1967) [9, 1357 (1967)]

LEVANYUK, A. P.
Absorption of Ultrasound during Phase Transitions in Triglycine Sulfate-Type Ferroelectrics. (E) K. A. Minaeva, A. P. Levanyuk, B. A. Strukov, and V. A. Koptsik. 9, 950 (1967) [9, 1220 (1967)]

LEVENSON, G. F.
Theory of Absorption and Emission of Light by an Impurity in Ferromagnetic and Antiferromagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 349 (1967) [9, 457 (1967)]
Theory of Light Absorption and Emission by Impurity Centers in Paramagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 2114 (1968) [9, 2693 (1967)]

LEVINSON, I. B.
Application of Schwinger's Variational Principle to the Calculation of Kinetic Coefficients. (T) P. A. Kazlauskas and I. B. Levinson. 9, 2760 (1968) [9, 3504 (1967)]

LEZHEIKO, L. V.
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3685 (1967)]

LIDER, V. V.
A New Method for Precision Determination of Interplanar Spacings from Patterns Taken in a Divergent Beam of X Rays. (E/T) V. V. Lider and V. N. Rozhanskii. 9, 2787 (1968) [9, 3539 (1967)]

LIFSHITS, A. I.
Investigation of the Diffusion of Fluorine Atoms in a LaF_3 Single Crystal Using the Nuclear Resonance Method. (E) A. G. Lundin, S. P. Gabuda, and A. I. Lifshits. 9, 273 (1967) [9, 357 (1967)]

LIKHACHEV, V. A.
Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]
Statistical Relationships Governing the Formation of Cracks in Polymethylmethacrylate under the Action of Laser Radiation. (E/T) V. I. Vladimirov, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]
Investigation of the Mechanism of Optical Damage of Lithium Fluoride Single Crystals. (E) N. V. Volkova, V. A. Likhachev, M. I. Stepanov, and L. M. Shestopalov. 9, 609 (1967) [9, 778 (1967)]
Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yarsoshetskii. 9, 1473 (1968) [9, 1868 (1967)]

LIID'YA, G. G.
Capture of Holes by Tl^+ Centers in KI:Tl. (E) R. A. Kink and G. G. Liid'ya. 9, 1316 (1967) [9, 1674 (1967)]

LINNIK, Z. N.
Mechanical Properties of Solid Para-Hydrogen at 4.2°K. (E) D. N. Bol'shutkin, Yu. E. Stetsenko, and Z. N. Linnik. 9, 1952 (1968) [9, 2482 (1967)]

LIPIN, A. L.
Piezomagnetoresistance of n-Type Ge for a Mixed Scattering Mechanism. (E) A. L. Lipin, V. S. L'vov, and T. V. Smirnova. 9, 2628 (1968) [9, 3339 (1967)]

LISITSA, M. P.
Absorption of Infrared Radiation by Free Carriers in n-Type GaAs. (E) O. V. Vakulenko and M. P. Lisitsa. 9, 769 (1967) [9, 979 (1967)]

LISOVENKO, V. A.
"Isostructural" Phase Transition in Naphthalene Crystals under the Action of Deformation. (E) V. A. Lisovenko and M. T. Shpak. 9, 271 (1967) [9, 358 (1967)]

LIVANOVA, L. D.
Electron Paramagnetic Resonance of Vanadium and Chromium in CaF_2. (E/T) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 155 (1967) [9, 209 (1967)]
Characteristics of Impurity-Center Formation in CdF_2. (E) F. Z. Gil'fanov, L. D. Livanova, and A. L. Stolov. 9, 326 (1967) [9, 427 (1967)]

Detection of Ti^{2+} Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 992 (1967) [9, 1265 (1967)]

EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]

Detection of V^{2+} in SrF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2346 (1968) [9, 2984 (1967)]

EPR of Copper and Titanium Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2347 (1968) [9, 2985 (1967)]

LITVINENKO, V. Yu.

Hole Injection in Anthracene from an Electrolyte and Space-Charge Limitation of Current. (E) V. Yu. Litvinenko and V. M. Fridkin. 9, 2845 (1968) [9, 3615 (1967)]

LITVINOV, Yu. M.

The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Rozhanskii. 9, 2448 (1968) [9, 3104 (1967)]

LOBURETS, Yu. V.

Bombardment of Thin CdTe Films with Indium Ions. (E) G. A. Kachurin, A. E. Gorodetskii, Yu. V. Loburets, and L. S. Smirnov. 9, 375 (1967) [9, 494 (1967)]

LOGACHEV, Yu. A.

Calculation of the Binding Energy of Ionic Crystals Using a Model Potential. (T) Yu. A. Logachev and I. V. Abarenkov. 9, 6 (1967) [9, 10 (1967)]

LOMOVA, L. G.

Spontaneous Electrooptical Effect in Crystals of Lithium Niobate. (E) A. S. Sonin and L. G. Lomova. 9, 2607 (1968) [9, 3315 (1967)]

LUKOMSKII, V. P.

Parametric Amplification of Magnetoelastic Waves. (T) V. P. Lukomskii. 9, 467 (1967) [9, 607 (1967)]

LUK'YANCHIKOVA, N. B.

Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]

Determination of the Radiative Yield of the Electron Capture by Sensitizing Recombination Centers in CdSe. (E) G. L. Belen'kii, I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2626 (1968) [9, 3337 (1967)]

LUNDIN, A. G.

Investigation of the Diffusion of Fluorine Atoms in a LaF_3 Single Crystal Using the Nuclear Resonance Method. (E) A. G. Lundin, S. P. Gabuda, and A. I. Lifshits. 9, 273 (1967) [9, 357 (1967)]

NMR and Ferroelectric Properties of Sodium Hydroselenite Mixed Crystals. (E) G. V. Gavrilova-Podol'skaya, S. P. Gabuda, and A. G. Lundin. 9, 911 (1967) [9, 1166 (1967)]

LUNTER, S. G.

Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]

LUR'E, B. G.

A Study of the State of Iron Ions in Silver Halides Using the Mössbauer Effect. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1110 (1967) [9, 1424 (1967)]

Diffusion and Electrolytic Migration of Cadmium Ions in Mixed AgCl + $CdCl_2$ Crystals. (E) B. G. Lur'e, A. N. Murin, and I. V. Murin. 9, 1337 (1967) [9, 1702 (1967)]

The Mössbauer Effect in AgI^{129}. (E) A. N. Murin, B. G. Lur'e, and Yu. S. Grushko. 9, 1429 (1967) [9, 1820 (1967)]

Influence of Hydrostatic Pressure on the Mechanism of Self-diffusion in Silver Chloride Single Crystals. (E) A. N. Murin, B. G. Lur'e, and I. V. Murin. 9, 1840 (1968) [9, 2350 (1967)]

State of Iron Impurity Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1901 (1968) [9, 2428 (1967)]

LUSHCHIK, Ch. B.

Formation of Excitons by Electrons in Thallium-Doped RbI Single Crystals. (E) Ch. B. Lushchik and T. I. Trofimova. 9, 2156 (1968) [9, 2744 (1967)]

LUTSKII, V. N.

Field Effect in Bismuth. (E/T) Yu. F. Ogrin, V. N. Lutskii, and M. I. Elinson. 9, 2547 (1968) [9, 3234 (1967)]

LUZHKOV, V. M.

Electron Paramagnetic Resonance of Cr^{3+} in $LaAlO_3$ Single Crystals. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 9, 2871 (1968) [9, 3639 (1967)]

LYAGUSHCHENKO, R. I.

Theory of the Photomagnetic Effect on Heated Electrons. (T) R. I. Lyagushchenko and I. N. Yassievich. 9, 2794 (1968) [9, 3547 (1967)]

LYAKHOVITSKAYA, V. A.

Optical Absorption by SbSI Crystals in the Presence of an Electric Field. (E) Yu. V. Shaldin and V. A. Lyakhovitskaya. 9, 1212 (1967) [9, 1541 (1967)]

Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

LYUBOV, B. Ya.

Calculation of the Rate of Pore Growth at Grain Boundaries under the Action of Tensile Stresses. (T) B. Ya. Lyubov and V. A. Solov'ev. 9, 2675 (1968) [9, 3388 (1967)]

LYUBUTIN, I. S.

Mössbauer Effect at Sn^{119} Nuclei in Some Garnet Structure Compounds. (E) I. S. Lyubutin and B. V. Mill'. 9, 2479 (1968) [9, 3145 (1967)]

LYUTOV, Yu. G.

Calculation of the Energy Distribution of Electrons Transmitted through Thin Films of Matter. (T/E) A. F. Akkerman, Yu. A. Andreev, and Yu. G. Lyutov. 9, 599 (1967) [9, 766 (1967)]

L'VOV, V. S.

Optical Activity of Deformed Crystals. (T) V. S. L'vov. 9, 1000 (1967) [9, 1273 (1967)]

Two-Magnon Combination Scattering of Light in Magnetically Ordered Dielectrics. (T) V. S. L'vov. 9, 2328 (1968) [9, 2963 (1967)]

Piezomagnetoresistance of n-Type Ge for a Mixed Scattering Mechanism. (E) A. L. Lipin, V. S. L'vov, and T. V. Smirnova. 9, 2628 (1968) [9, 3339 (1967)]

L'VOVA, E. Yu.

Electroluminescence Transport Equations and the Investigation of These Equations Using a Two-Stage Model. (T) E. Yu. L'vova. 9, 2068 (1968) [9, 2630 (1967)]

MAEVSKII, V. M.

Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Maevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 983 (1967)]

EPR of Mn^{2+} in $Cd(S_{1-x}Se_x)$ Single Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 9, 1912 (1968) [9, 2437 (1967)]

MAKARENKO, L. V.

EPR of Ground and Excited States of Er^{3+} Ions in Calcium and Strontium Molybdate Crystals. (E) G. M. Zverev, L. V. Makarenko, and A. I. Smirnov. 9, 2883 (1968) [9, 3651 (1967)]

MAKAROV, E. F.

Mössbauer and X-Ray Investigations of a Finely Divided Fe + 12 at.% Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]

MAKAROV, V. P.

Optical Spectrum of a CaF_2:Sm^{2+} Crystal. (E) G. A. Zvereva and V. P. Makarov. 9, 2356 (1968) [9, 2994 (1967)]

MAKAROV, V. V.

Cathodoluminescence of SiC Crystals of Various Modifications Containing Radiation Defects. (E) V. V. Makarov. 9, 457 (1967) [9, 596 (1967)]

Drift Mobility of Carriers in Nickel Oxide. (E) V. V. Makarov, Ya. M. Ksendzov, and V. I. Kruglov. 9, 512 (1967) [9, 663 (1967)]

Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Makarov. 9, 628 (1967) [9, 1058 (1967)]

MAKLAKOV, A. I.
Influence of the Distribution of Correlation Times in Polymers on the NMR Line Width. (T/E) V. P. Grigor'ev, V. M. Lantsov, A. I. Maklakov, and A. A. Lantsova. 9, 2867 (1968) [9, 3635 (1967)]

MAKSIMOVA, T. I.
Emergence of Local Vibrations of Additive Molecular Ions in the Infrared Absorption Spectra of Alkali Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2037 (1968) [9, 2590 (1967)]

Temperature Dependence of the Intensity of Local Vibrations of OH Ions in Infrared Absorption Spectra of Alkali-Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2900 (1968) [9, 3668 (1967)]

MAKUKHA, V. I.
Investigation of the Adsorption and Electron Emission of Cesium Films on a Tungsten Single Crystal. (E) V. I. Makukha. 9, 111 (1967) [9, 150 (1967)]

Adsorption and Electron Emission of Cesium Films on Iridium. (E) N. D. Konovalov and V. I. Makukha. 9, 2108 (1968) [9, 2686 (1967)]

MALEEV, S. V.
Slow Neutron Scattering by Spin Waves Excited by Ferromagnetic Resonance. (T) S. V. Maleev and S. S. Stamenkovich. 9, 575 (1967) [9, 733 (1967)]

MALKIN, B. Z.
Jahn-Teller Effect in the Ground State of the V^{3+} Ion in Fluorite Taking Covalency into Account. (T) L. K. Aminov and B. Z. Malkin. 9, 1030 (1967) [9, 1316 (1967)]

MALKOVICH, R. Sh.
Decomposition of a Solid Solution of Gold in Silicon. (E) Yu. I. Kozlov and R. Sh. Malkovich. 9, 384 (1967) [9, 504 (1967)]

Temperature Dependence of the Isoconcentration Diffusion of Zinc in Gallium Arsenide. (E) R. Sh. Malkovich and G. K. Malysh. 9, 423 (1967) [9, 553 (1967)]

Changes in the Concentration of Gold in Silicon. (E) R. Sh. Malkovich. 9, 1676 (1968) [9, 2132 (1967)]

MALOV, Yu. V.
Investigation of the Dislocation Structure of Silicon Deformed during the Easy Slip Stage. (E) Yu. V. Malov and V. N. Roshanskii. 9, 905 (1967) [9, 1028 (1967)]

MALYSH, G. K.
Temperature Dependence of the Isoconcentration Diffusion of Zinc in Gallium Arsenide. (E) R. Sh. Malkovich and G. K. Malysh. 9, 423 (1967) [9, 553 (1967)]

MALYUTENKO, V. K.
Determination of the Lifetime and Mobility of Nonequilibrium Holes in Cadmium Sulfide Single Crystals. (E) V. E. Lashkarev, V. K. Malyutenko, and V. A. Romanov. 9, 323 (1967) [9, 422 (1967)]

MAMBETOV, D. M.
Photoemission from a NaCl Crystal Stimulated by an Electric Discharge. (E/T) D. M. Mambetov and V. F. Resnyanskii. 9, 1417 (1967) [9, 1808 (1967)]

MAMONTOVA, T. N.
Fluctuation Levels in the Glassy Semiconductor $Tl_2Se \cdot As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. 9, 19 (1967) [9, 27 (1967)]

MANZHELII, V. G.
Thermal Expansion of Solidified Inert Gases. (E) V. G. Manzhelii, V. G. Gavrilko, and E. I. Voitovich. 9, 1157 (1967) [9, 1463 (1967)]

MARFUNIN, A. S.
Optical Spectrum of Fe^{3+} in Sphalerite. (E) A. S. Marfunin, A. N. Platonov, and V. E. Fedorov. 9, 2847 (1968) [9, 3616 (1967)]

MARTYNENKO, T. P.
Sputtering of Metal Carbides with Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2232 (1968) [9, 2839 (1967)]

Sputtering of Metal Nitrides and Borides by Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2887 (1968) [9, 3655 (1967)]

MARTYNENKO, Yu. V.
Inelastic Energy Loss of Ions in Channels in Crystalline Materials. (T) Yu. V. Martynenko. 9, 2879 (1968) [9, 3646 (1967)]

MASHKOVA, E. S.
A Method for Observing Annealing of Defects in Crystals. (E) I. N. Evdokimov, E. S. Mashkova, and V. A. Molchanov. 9, 1434 (1967) [9, 1825 (1967)]

MASHKOVICH, M. D.
Nature of Microwave Dielectric Losses in Glasses. (E) M. D. Mashkovich and É. N. Smolyanskaya. 9, 974 (1967) [9, 1249 (1967)]

MASHOVETS, T. V.
Formation of Structure Defects during Low-Temperature Irradiation of Indium Antimonide with X Rays. (E) B. Cheluștka, R. Yu. Khansevarov, T. V. Mashovets, and I. R. Kozlova. 9, 253 (1967) [9, 338 (1967)]

Concerning the Effect of Thermal Defects on the Radiation Stability of Germanium. (E) T. V. Mashovets, S. M. Ryvkin, and R. Yu. Khansevarov. 9, 407 (1967) [9, 535 (1967)]

MASHTAKOV, V. S.
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. V. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashtakov, and E. I. Tsarapaeva. 9, 657 (1967) [9, 842 (1967)]

MASLOVSKAYA, Z. A.
Transfer of Plastic Deformation through Intergranular Boundaries in NaCl Bicrystals. (E) V. M. Finkel', Z. A. Maslovskaya, and V. V. Vakhonin. 9, 945 (1967) [9, 1213 (1967)]

MATULIS, A. Yu.
Spin-Cyclotron-Phonon Resonance in Semiconductors. (T) A. Yu. Matulis. 9, 1755 (1968) [9, 2238 (1967)]

MATVEENKO, A. V.
Quantum Oscillations of the Photomagnetic Effect in n-Type InAs. (E) M. S. Bresler, A. V. Matveenko, and I. I. Farbshtein. 9, 1924 (1968) [9, 2448 (1967)]

MATVEEVA, I. G.
EPR of Trivalent Chromium in $YAl_3(BO_3)_4$ Crystals. (E) V. A. Atsarkin, V. B. Kravchenko, and I. G. Matveeva. 9, 2646 (1968) [9, 3353 (1967)]

MAZHUOLITE, G. É.
Theory of Kinetic Phenomena with Low-Temperature Scattering by Optical Phonons. (T) G. É. Mazhuolite. 9, 2219 (1968) [9, 2833 (1967)]

MEDVEDEV, M. V.
Impurity Atom in a Complex Ferromagnetic Structure. (T) Yu. A. Izyumov and M. V. Medvedev. 9, 435 (1967) [9, 567 (1967)]

MEDVEDEV, V. K.
Adsorption of Lithium on Faces of a Tungsten Single Crystal Covered with an Adsorbed Oxygen Film. (E) V. M. Gavrilyuk and V. K. Medvedev. 9, 259 (1967) [9, 344 (1967)]

MEDVEDEV, V. N.
Linear Stark Effect in the U-Band of Ruby. (E) A. A. Kaplyanskii and V. N. Medvedev. 9, 2121 (1968) [9, 2704 (1967)]

MEIL'MAN, L. M.
Propagation of 10^4 MHz Hypersound Perpendicular to the Optic Axis in $LiNbO_3:Cr^{3+}$ at Room and Helium Temperatures. (E) B. P. Smolyakov, L. M. Meil'man, V. P. Klyuev, I. A. Shpil'ko, and U. Kh. Kopvillem. 9, 2366 (1968) [9, 3002 (1967)]

MEISNER, L. B.
Contribution to the Theory on Dielectric Permeability of Rutile. (E) L. B. Meisner. 9, 2604 (1968) [9, 3311 (1967)]

MEKHTIEV, M. A.
Inelastic Reflection of Plasma Waves from a Metal Boundary. (T) M. A. Mekhtiev. 9, 1645 (1968) [9, 2098 (1967)]

MEKHTIEV, R. F.
Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]

MEL'NIK, P. V.
Inelastic Scattering of Electrons Having Specific Energies in Thin Films of Gold. (E) N. G. Nakhodkin and P. V. Mel'nik. 9, 567 (1967) [9, 723 (1967)]

MERKULOV, L. G.
Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Sazonov. 9, 2096 (1968) [9, 2670 (1967)]

MESHCHERYAKOV, N. A.
Paramagnetic Centers in Silicon Powders. (E) N. A. Meshcheryakov, L. Ya. Al't, and V. F. Anufrienko. 9, 2667 (1968) [9, 3379 (1967)]

MESKIN, S. S.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

MEZDROGINA, M. M.
Crystallization of Levitating Metals. (E) A. A. Fogel', T. A. Sidorova, Z. A. Gutz, and M. M. Mezdrogina. 9, 2636 (1968) [9, 3346 (1967)]

MIKALKEVICHYUS, M. P.
Pyroelectric Effect in Antimony Trisulfide Single Crystals. (E) V. S. Rinkyavichyus and M. P. Mikalkevichyus. 9, 2360 (1968) [9, 2897 (1967)]

MIKHAILOVA, O. L.
Influence of an Electrostatic Field on the Temperature Dependence of the Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, O. L. Mikhailova, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 531 (1967) [9, 679 (1967)]

MIKHEEV, B. G.
Conductivity of Pure Calcium, Strontium, and Barium Fluorides. (E) V. A. Arkhangel'skaya, B. G. Mikheev, T. I. Nikitinskaya, and M. S. Tyutin. 9, 539 (1967) [9, 687 (1967)]

MIKHLIN, É. Ya.
Radiation Annealing of Seeger's Depletion Zone. (T) V. M. Agranovich and É. Ya. Mikhlin. 9, 851 (1967) [9, 1089 (1967)]

MILL', B. V.
Mössbauer Effect at Sn^{119} Nuclei in Some Garnet Structure Compounds. (E) I. S. Lyubutin and B. V. Mill'. 9, 2479 (1968) [9, 3146 (1967)]

MIL'MAN, Yu. V.
Relaxation of Stresses in a Silicon Single Crystal. (E) I. V. Gridneva, Yu. V. Mil'man, V. G. Permyakov, and V. I. Trefilov. 9, 417 (1967) [9, 547 (1967)]

MIL'VIDSKII, M. G.
Investigation of Defects Generated during the Heat Treatment of Oxygen-Bearing Silicon. (E) I. L. Shul'pina, L. V. Lainer, M. G. Mil'vidskii, and E. P. Rashevskaya. 9, 1291 (1967) [9, 1641 (1967)]

MILYAEV, V. A.
Analysis of Conditions for Phonon "Heating" in Paramagnetic Crystals. (E/T) V. A. Milyaev. 9, 117 (1967) [9, 157 (1967)]

MINAEVA, K. A.
Absorption of Ultrasound during Phase Transitions in Triglycine Sulfate-Type Ferroelectrics. (E) K. A. Minaeva, A. P. Levanyuk, B. A. Strukov, and V. A. Koptsik. 9, 950 (1967) [9, 1220 (1967)]

MINTS, R. I.
Exoelectronic Emission during Phase Transitions in Ferroelectric Materials. (E) V. S. Kortov and R. I. Mints. 9, 1436 (1967) [9, 1828 (1967)]

Influence of Plastic Deformation on the Magnitude of the Mössbauer Effect. (E) V. S. Kortov, R. I. Mints, and Yu. N. Seklsov. 9, 2169 (1968) [9, 2755 (1967)]

MINYAFAEV, R. Kh.
Velocity of Longitudinal and Transverse Ultrasonic Waves in Polycrystalline Normal Hydrogen. (E/T) P. A. Bezuglyi and R. Kh. Minyafaev. 9, 480 (1967) [9, 624 (1967)]

Velocity of Sound and Elastic Properties of Normal Polycrystalline Deuterium. (E) P. A. Bezuglyi and R. Kh. Minyafaev. 9, 2854 (1968) [9, 3622 (1967)]

MIRKIN, L. I.
Mechanism of the Interaction between a Laser Light Beam and Light-Sensitive Glass. (E) L. I. Mirkin, N. F. Pilipetskii, and É. M. Rabinovich. 9, 1877 (1968) [9, 2400 (1967)]

Explosive Deformation of Single Crystals. (E) L. V. Al'tshuler, M. I. Brazhnik, V. N. German, and L. I. Mirkin. 9, 2417 (1968) [9, 3063 (1967)]

MIRLIN, D. N.
Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]

Thermal Conductivity of Additively Colored KCl Crystals. (E) D. N. Mirlin and I. A. Smirnov. 9, 1452 (1967) [9, 1843 (1967)]

MIRONOV, S. A.
Time Lag in a Sequence of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, S. S. Starobinets, and K. V. Shevlyagin. 9, 510 (1967) [9, 661 (1967)]

Amplitude and Time Oscillations of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, and K. V. Shevlyagin. 9, 942 (1967) [9, 1209 (1967)]

MIROSHNICHENKO, I. V.
Electron Paramagnetic Resonance of the Cu^{2+} Ion in NH_4Br. (E) G. M. Larin, I. V. Miroshnichenko, and G. K. Chirkin. 9, 529 (1967) [9, 677 (1967)]

MITROFANOV, K. P.
Mössbauer Effect in Glasses Containing Tin. (E) K. P. Mitrofanov and T. A. Sidorov. 9, 693 (1967) [9, 890 (1967)]

MITSEK, A. I.
Theory of Collectivé Excitations in a Heisenberg Paramagnet. (T) A. I. Mitsek. 9, 558 (1967) [9, 710 (1967)]

MOISEEV, B. M.
Shape of NMR Line for a Two-Spin and Nonresonant-Dipole System. (T/E) B. M. Moiseev and L. I. Fedorov. 9, 1867 (1968) [9, 2387 (1967)]

MOISEEV, V. A.
Magnetic Ordering of Zinc Tungstate with a High Concentration of Manganese Impurity. (E) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 9, 2152 (1968) [9, 2739 (1967)]

MOIZHES, B. Ya.
Thermal Conductivity in a Two-Dimensional Lattice. (T) I. V. Kirillova, L. L. Korobova, and B. Ya. Moizhes. 9, 1063 (1967) [9, 1281 (1967)]

MOLCHANOV, A. G.
The Possibility of the Generation of Vacuum Ultraviolet Radiation by Electron Excitation of Inert-Gas Crystals. (E) A. G. Molchanov, I. A. Poluéktov, and Yu. M. Popov. 9, 2655 (1968) [9, 3363 (1967)]

MOLCHANOV, V. A.
A Method for Observing Annealing of Defects in Crystals. (E) I. N. Evdokimov, E. S. Mashkova, and V. A. Molchanov. 9, 1434 (1967) [9, 1825 (1967)]

Dependence of the Sputtering Coefficients of Polycrystalline Targets on the Angle of Incidence of Ions. (E) I. N. Evdokimov and V. A. Molchanov. 9, 1967 (1968) [9, 2503 (1967)]

MOLODKIN, V. B.
Influence of Thermal Oscillations on Electron Scattering in the Dynamical Theory Approximation. (T) L. B. Kvashnina, V. B. Molodkin, and E. A. Tikhonova. 9, 1306 (1967) [9, 1660 (1967)]

MONOSOV, Ya. A.
High-Frequency Oscillations in Polycrystalline Ferrites during Nonlinear Ferromagnetic Resonance. (E) Ya. A. Monosov and V. V. Surin. 9, 970 (1967) [9, 1246 (1967)]

MORGULIS, L. M.
Formation of Dislocation Structure during Deformation of Silicon-Iron Single Crystals. (E) V. G. Kurdyumov, L. M. Morgulis, and L. M. Utevskii. 9, 519 (1967) [9, 669 (1967)]

MOROZOV, A. I.
Effect of Traps on the Amplification of Ultrasound in Cadmium Sulfide. (E) S. G. Kalashnikov, A. I. Morozov, and B. A. Stankovskii. 9, 670 (1967) [9, 859 (1967)]

MOROZOV, E. P.
Injection Luminescence of Epitaxial Heterojunctions in the GaP—GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morosov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

MOROZOV, Yu. N.
Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]

Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]

MOROZOVA, I. G.
Faraday Effect Mechanisms in Ferrimagnets. (E) M. V. Chetkin, I. G. Morozova, and G. K. Tyutneva. 9, 2852 (1968) [9, 3621 (1967)]

MORSHNEV, S. K.
EPR, Spin-Lattice Relaxation, and Optical Absorption in Magnesium Tungstate Containing Cobalt Impurity. (E) V. A. Atsarkin, S. K. Morshnev, and L. I. Potkin. 9, 660 (1967) [9, 846 (1967)]

MOSEL', V. I.
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lebed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]

MOSKALEV, P. N.
Electron Paramagnetic Resonance of Phthalocyanines of Rare Earth Elements. (E) I. S. Kirin, Yu. L. Shelekhin, and P. N. Moskalev. 9, 1461 (1967) [9, 1852 (1967)]

MUKHA, L. Ya.
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lebed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]

MURIN, A. N.
Photochemical Transformations of Radiophosphorus in Single Crystals of Potassium Chloride. (E) R. V. Bogdanov and A. N. Murin. 9, 180 (1967) [9, 243 (1967)]

A Study of the State of Iron Ions in Silver Halides Using the Mössbauer Effect. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1110 (1967) [9, 1434 (1967)]

Diffusion and Electrolytic Migration of Cadmium Ions in Mixed AgCl + $CdCl_2$ Crystals. (E) B. G. Lur'e, A. N. Murin, and I. V. Murin. 9, 1337 (1967) [9, 1702 (1967)]

The Mössbauer Effect in AgI^{129}. (E) A. N. Murin, B. G. Lur'e, and Yu. S. Grushko. 9, 1429 (1967) [9, 1820 (1967)]

Influence of Hydrostatic Pressure on the Mechanism of Self-Diffusion in Silver Chloride Single Crystals. (E) A. N. Murin, B. G. Lur'e, and I. V. Murin. 9, 1840 (1968) [9, 2350 (1967)]

State of Iron Impurity Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1901 (1968) [9, 2428 (1967)]

MURIN, I. V.
Diffusion and Electrolytic Migration of Cadmium Ions in Mixed AgCl + $CdCl_2$ Crystals. (E) B. G. Lur'e, A. N. Murin, and I. V. Murin. 9, 1337 (1967) [9, 1702 (1967)]

Influence of Hydrostatic Pressure on the Mechanism of Self-diffusion in Silver Chloride Single Crystals. (E) A. N. Murin, B. G. Lur'e, and I. V. Murin. 9, 1840 (1968) [9, 2350 (1967)]

MUROMTSEV, V. I.
Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1967) [9, 1403 (1967)]

MURTAZIN, Sh. F.
Quantum-Mechanical Theory of Direct Nuclear Magnetic Relaxation. (T) Sh. F. Murtazin. 9, 1322 (1967) [9, 1552 (1967)]

MUSAEV, P. Kh.
Galvanomagnetic Effects in Semiconductors Having Toroidal Isoenergetic Surfaces. (T) A. G. Aronov and P. Kh. Musaev. 9, 1790 (1968) [9, 2284 (1967)]

MUSATOV, A. L.
Photoelectric Properties of the Aluminum—Aluminum Oxide—Gold Film System. (E) A. L. Musatov. 9, 2580 (1968) [9, 3279 (1967)]

MYLOV, V. P.
Change in the Nature of the Phase Transition in Barium Titanate Single Crystals under Hydrostatic Pressure. (E) I. N. Polandov, B. A. Strukov, and V. P. Mylov. 9, 1153 (1967) [9, 1477 (1967)]

Investigation of $Ba(TiSn)O_3$ Ferroelectric Ceramics at High Pressures. (E) I. N. Polandov and V. P. Mylov. 9, 1816 (1968) [9, 2319 (1967)]

Changes in the Dielectric Properties of Triglycine Fluoroberylate under the Action of Hydrostatic Pressure. (E) V. P. Mylov, I. N. Polandov, and B. A. Strukov. 9, 2375 (1968) [9, 3012 (1967)]

MYSHLYAEV, M. M.
Change in the Block Structure of Aluminum during Creep. (E) M. M. Myshlyaev. 9, 937 (1967) [9, 1203 (1967)]

Changes in Dislocation Structures during Preparation of Foil Specimens for Electron Microscope Transmission Studies. (E) M. M. Myshlyaev. 9, 1312 (1967) [9, 1669 (1967)]

Plastic Deformation of Silicon in the Brittle Fracture Region. (E) V. I. Nikitenko, M. M. Myshlyaev, and V. G. Eremenko. 9, 2047 (1968) [9, 2604 (1967)]

Electron-Microscope Observation of Dislocation Motion in Silicon under the Influence of an Electron Beam. (E) M. M. Myshlyaev, V. I. Nikitenko, and V. G. Eremenko. 9, 2427 (1968) [9, 3077 (1967)]

NABUTOVSKAYA, O. A.
Microhardness of Deformed NaCl Crystals. (E) A. A. Shpunt and O. A. Nabutovskaya. 9, 387 (1967) [9, 507 (1967)]

Microhardness of Chromium near the Néel Point. (E) O. A. Nabutovskaya. 9, 1928 (1968) [9, 2452 (1967)]

NABUTOVSKII, V. M.
Nonlinear Relationship between Current and Electric Field under Shubnikov-de Haas Effect Conditions. (T) V. M. Nabutovskii. 9, 2632 (1968) [9, 3342 (1967)]

NAGAEV, É. L.
Consideration of Partial Phonon Reflection from Boundaries in the Calculation of the Low-Temperature Thermal Conductivity of Dielectrics. (T) A. E. Kazakov and É. L. Nagaev. 9, 1255 (1967) [9, 1594 (1967)]

Anomalous Properties of Conduction Electrons near the Curie Point. (T) É. L. Nagaev. 9, 1942 (1968) [9, 2469 (1967)]

NAGIBAROV, V. R.
Super-nonradiative State of Matter. (T) U. Kh. Kopvillem and V. R. Nagibarov. 9, 1008 (1967) [9, 1287 (1967)]

NAKHODKIN, N. G.
Inelastic Scattering of Electrons Having Specific Energies in Thin Films of Gold. (E) N. G. Nakhodkin and P. V. Mel'nik. 9, 567 (1967) [9, 723 (1967)]

NANG HUNG-PIN
The Motion of Edge Dislocations at Low Stresses in Sodium Chloride Crystals. (E/T) A. A. Predvoditelev, N. K. Rakova, and Nang Hung-pin. 9, 224 (1967) [9, 300 (1967)]

NASLEDOV, D. N.
Negative Magnetoresistance in Cu-Doped n-Type GaAs. (E/T) O. V. Emel'yanenko, É. É. Klotyn'sh, T. S. Lagunova, and D. N. Nasledov. 9, 725 (1967) [9, 933 (1967)]

Investigation of the Electroluminescence of p-n Junctions in Indium Arsenide. (E) N. P. Esina, N. V. Zotova, and D. N. Nasledov. 9, 1036 (1967) [9, 1324 (1967)]

NASYROV, A.

Anisotropy of the Ultrasonic Attenuation Factor in Yttrium Garnet. (E) A. Nasyrov and A. V. Pavlenko. 9, 205 (1967) [9, 276 (1967)]

NAUMOV, G. P.

Experimental Investigations of the Electroluminescence Effect in CdTe p-n Junctions. (E) G. P. Naumov. 9, 46 (1967) [9, 64 (1967)]

NAUMOVETS, A. G.

Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavrilyuk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]

NAZAROVA, M. P.

Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. (E) S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov. 9, 1488 (1968) [9, 1887 (1967)]

NECHAEVA, V. V.

Reversible Structural Transitions in Glassy SiO_2 at Elevated Temperatures. (E) A. I. Sokiakov and V. V. Nechaeva. 9, 715 (1967) [9, 921 (1967)]

NEDLIN, G. M.

Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 9, 1560 (1968) [9, 1983 (1967)]

Spatial Oscillations of Spin Density and Nuclear Magnetic Resonance in $RbCoF_3$. (T) M. P. Petrov and G. M. Nedlin. 9, 2556 (1968) [9, 3246 (1967)]

Resonant Frequencies in a Two-Sublattice Uniaxial Ferrite in the Noncollinear Phase. (T) B. I. Kuliev and G. M. Nedlin. 9, 2102 (1968) [9, 2678 (1967)]

NEILO, G. N.

EPR Spectrum of Mn^{2+} in $ZnWO_4$. (E) A. A. Galkin, G. N. Neilo, and G. A. Tsintsadze. 9, 275 (1967) [9, 359 (1967)]

NEKLYUDOV, I. M.

Measurement of the Electrical Resistance of Bismuth during Programmed Loading. (E) R. I. Garber, I. A. Gindin, and I. M. Neklyudov. 9, 1224 (1967) [9, 1554 (1967)]

Variation of Ultrasonic Absorption in Fast and Programmed Loading. (E/T) I. A. Gindin, I. M. Neklyudov, and V. B. Rabukhin. 9, 1410 (1967) [9, 1802 (1967)]

Interaction of Point Defects with Dislocations in High-Purity Quenched Aluminum. (E) I. A. Gindin, I. M. Neklyudov, and I. I. Bobonets. 9, 2333 (1968) [9, 2969 (1967)]

NEKRASOV, V. V.

Microhardness and the Absorption of Ultrasound in Ternary Alloys of Bismuth with Tellurium and Tin. (E) V. V. Nekrasov. 9, 314 (1967) [9, 411 (1967)]

NEMCHINOV, Yu. V.

Hall Effect in an Invar Alloy at Low Temperatures. (E) E. P. Svirina and Yu. V. Nemchinov. 9, 553 (1967) [9, 704 (1967)]

NEMILOV, Yu. A.

Study of Nuclear γ Resonance after α Decay. (E) G. N. Belozerskii, Yu. A. Nemilov, A. A. Chaikhorskii, and A. V. Shvedchikov. 9, 978 (1967) [9, 1252 (1967)]

NEMOSHKALENKO, V. V.

X-Ray Emission Spectrum Investigation of the Electron Structure of Elements in the Second Large Period. (E) V. V. Nemoshkalenko and V. P. Krivitskii. 9, 268 (1967) [9, 353 (1967)]

NEPSHA, V. I.

Experimental Investigation of the Influence of an External Field on the EPR Spectrum of Cr^{3+} Ions in Corundum. (E) V. I. Nepsha, Yu. A. Sherstkov, A. D. Gorlov, and A. A. Shchetkov. 9, 1907 (1968) [9, 2433 (1967)]

NESTEROVA, N. N.

Infrared Absorption Spectrum of the Antiferromagnets $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova, I. G. Sinii, R. V. Pisarev, and P. P. Syrnikov. 9, 15 (1967) [9, 21 (1967)]

Fine Structure of the Ground State of Co^{2+} in $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova and R. V. Pisarev. 9, 1220 (1967) [9, 1550 (1967)]

NETESOVA, N. P.

Ferroelectric Phase Transitions in Triglycine Sulfate at Pressures up to 10 kbars. (E) G. G. Leonidova, N. P. Netesova, and T. R. Volk. 9, 454 (1967) [9, 593 (1967)]

NEVSKII, Yu. E.

Use of a Comparison Method in Measurement of the Acoustoelectric emf. (E) L. V. Sellvanov and Yu. E. Nevskii. 9, 1783 (1968) [9, 2274 (1967)]

NIKANOROV, S. P.

Temperature Dependence of the Elastic Modulus of RbI Crystals. (E) P. I. Antonov, B. K. Kardashev, and S. P. Nikanorov. 9, 527 (1967) [9, 676 (1967)]

Temperature Dependence of the Elastic Constants of Sodium Iodide. (E) B. K. Kardashev and S. P. Nikanorov. 9, 747 (1967) [9, 952 (1967)]

NIKIFOROV, A. E.

Theory of the Stark Effect in the Optical Spectrum of Impurity Ion Pairs of $3d^1$ Configuration in Corundum. (T) A. E. Nikiforov. 9, 1922 (1968) [9, 2446 (1967)]

NIKITENKO, V. I.

Direct Observation of Screw Dislocations Perpendicular to the Surface of Single-Crystal Silicon. (E) L. N. Danil'chuk and V. I. Nikitenko. 9, 1592 (1968) [9, 2027 (1967)]

Plastic Deformation of Silicon in the Brittle Fracture Region. (E) V. I. Nikitenko, M. M. Myshlyaev, and V. G. Eremenko. 9, 2047 (1968) [9, 2604 (1967)]

Electron-Microscope Observation of Dislocation Motion in Silicon under the Influence of an Electron Beam. (E) M. M. Myshlyaev, V. I. Nikitenko, and V. G. Eremenko. 9, 2427 (1968) [9, 3077 (1967)]

NIKITIN, V. V.

Utilization of a Laser to Measure the Lifetime of Excess Carriers in Gallium Arsenide Single Crystals. (E) A. V. Dudenkova and V. V. Nikitin. 9, 664 (1967) [9, 851 (1967)]

NIKITIN, Yu. P.

Polarization of the Radiation from a Ruby Laser. (T/E) A. I. Alekseev and Yu. P. Nikitin. 9, 1024 (1967) [9, 1309 (1967)]

NIKITINSKAYA, T. I.

Conductivity of Pure Calcium, Strontium, and Barium Fluorides. (E) V. A. Arkhangel'skaya, B. G. Mikheev, T. I. Nikitinskaya, and M. S. Tyutin. 9, 539 (1967) [9, 687 (1967)]

Electrical Conductivity of Ca, Sr, and Ba Fluorides Containing TR^{3+} Impurity. (E) T. I. Nikitinskaya, E. V. Suntsov, and M. S. Tyutin. 9, 1656 (1968) [9, 2111 (1967)]

Influence of Oxygen Impurity on the Conductivity of Lithium Fluoride. (E) Yu. B. Vladimirskii, T. I. Nikitinskaya, and P. A. Tsirul'nik. 9, 1666 (1968) [9, 2122 (1967)]

NIKOLAEV, B. M.

The Photodielectric Effect in Compensated Germanium. (E) N. S. Kasperovich, B. M. Nikolaev, and Ya. A. Oksman. 9, 343 (1967) [9, 449 (1967)]

NIKOLAEV, V. I.

Spontaneous Magnetostriction of the Compound $MnAu_2$. (E) V. A. Gordienko and V. I. Nikolaev. 9, 2216 (1968) [9, 2820 (1967)]

NIKOL'SKII, A. P.

State of Vanadium Ions in Garnet Ferrites. (T/E) A. P. Nikol'skii, V. Ya. Dubossarskaya, and S. S. Gorelik. 9, 1809 (1968) [9, 2311 (1967)]

NINUA, O. A.

Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

NITSOVICH, B. M.

Exciton-Phonon Interaction in One-Dimensional Molecular Crystals. (T) A. S. Davydov and B. M. Nitsovich. 9, 1749 (1968) [9, 2230 (1967)]

NIYAZOVA, O. R.
Radiation-Stimulated Diffusion in Cadmium Sulfide. (E) S. V. Starodubtsev, O. R. Niyazova, and M. A. Kaneev. 9, 679 (1967) [9, 872 (1967)]

NIZAMIDINOV, S.
Rotational Mobility of Crystallites in Oriented Kapron (Polycaprolactam). (E) V. S. Kuksenko, S. Nizamidinov, and A. I. Slutsker. 9, 1569 (1968) [9, 1996 (1967)]

NOLLE, É. L.
Recombination through Exciton States in Semiconductors. (T) É. L. Nolle. 9, 90 (1967) [9, 122 (1967)]
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. S. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashkakov, and E. I. Tsarapaeva. 9, 857 (1967) [9, 842 (1967)]

NOVIKOV, A. I.
Relation between Dislocations and Microplasmas during Avalanche Breakdown of a p–n Junction in Si. (E) I. V. Grekhov, N. N. Kryukova, and A. I. Novikov. 9, 1439 (1967) [9, 1831 (1967)]

NOVIKOV, G. V.
Magnetic Fields at Tin Nuclei in a Manganese Ferrite. (E) G. V. Novikov, V. A. Trukhtanov, S. I. Yushchuk, and N. A. Grigoryan. 9, 2350 (1968) [9, 2988 (1967)]

NOVIKOVA, S. I.
Low-Temperature Phase Transition in Tin Telluride. (E) S. I. Novikova and L. E. Shelimova. 9, 1046 (1967) [9, 1336 (1967)]

OBUKHOV, A. A.
Microwave Dielectric Properties of Ferrite Spinels. (E) A. A. Samokhvalov, S. A. Ismailov, and A. A. Obukhov. 9, 688 (1967) [9, 884 (1967)]

OGANESYAN, V. O.
EPR of Cu^{2+} in $ZnWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 266 (1967) [9, 352 (1967)]
Electrical Effects in the EPR of Cu^{2+} in $CdWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 1926 (1968) [9, 2450 (1967)]

OGRIN, Yu. F.
Field Effect in Bismuth. (E/T) Yu. F. Ogrin, V. N. Lutskii, and M. I. Elinson. 9, 2547 (1968) [9, 3234 (1967)]

OKSMAN, Ya. A.
The Photodielectric Effect in Compensated Germanium. (E) N. S. Kasperovich, B. M. Nikolaev, and Ya. A. Oksman. 9, 343 (1967) [9, 449 (1967)]

OKUNEVA, N. M.
Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]
Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]

ONISHCHENKO, A. M.
Concentration Quenching of Erbium Luminescence in Yttrium-Aluminum Garnet. (E) R. V. Bakradze, G. M. Zverev, G. Ya. Kolodnyi, G. P. Kuznetsova, and A. M. Onishchenko. 9, 733 (1967) [9, 939 (1967)]

ORDAN'YAN, S. S.
Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1967) [9, 1557 (1967)]

ORLOV, L. G.
The Deformation of Polycrystalline Iron within the Yield Plateau. (E) L. G. Orlov. 9, 1828 (1968) [9, 2334 (1967)]
Generation of Dislocations on External and Internal Surfaces of Crystals. (T) L. G. Orlov. 9, 1836 (1968) [9, 2345 (1967)]

ORLOVA, S. L.
Detection of Cyclotron Resonance from Changes in the Static Conductivity. (E) E. M. Gershenzon, Yu. A. Gurvich, N. G. Ptitsyna, and S. L. Orlova. 9, 543 (1967) [9, 691 (1967)]

ORUDZHEVA, Sh. O.
Absorption of Ultrasonic Waves in a Tellurium Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 9, 2290 (1968) [9, 2912 (1967)]

OSIPOV, K. A.
Obtaining Thin Films of Molybdenum Carbide from Molybdenum Hexacarbonyl under the Action of an Electron Beam. (E) B. A. Vishnyakov and K. A. Osipov. 9, 1216 (1967) [9, 1545 (1967)]

OSKOTSKII, V. S.
Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]
Measurement of the Phonon Distribution Function in Polycrystalline Materials Using Coherent Scattering of Slow Neutrons into a Solid Angle. (T/E) V. S. Oskotskii. 9, 420 (1967) [9, 550 (1967)]

OSTROUKHOV, A. A.
Inelastic Scattering of Medium-Energy Electrons in the Continuous-Energy-Loss Approximation. (T/E) A. A. Ostroukhov. 9, 1369 (1967) [9, 1744 (1967)]

OVCHINNIKOV, A. P.
Adsorption and Electron Emission of Potassium Films on Faces of a Tungsten Single Crystal. (E) A. P. Ovchinnikov. 9, 483 (1967) [9, 628 (1967)]
Work Function of Faces of a Rhenium Single Crystal in Vacuum and in a Stream of Cesium Atoms. (E) A. P. Ovchinnikov. 9, 1508 (1968) [9, 1911 (1967)]
Field-Emission Study of the Adsorption of Sodium on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 1519 (1968) [9, 1927 (1967)]
Field Emission of Lithium Films on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 2766 (1968) [9, 3512 (1967)]
Treatment of the Energy Loss in the Electrostatic Model of Adsorption of a Film. (T) V. A. Kuznetsov, A. P. Ovchinnikov, and B. M. Tsarev. 9, 2851 (1968) [9, 3649 (1967)]

OVCHINNIKOVA, T. L.
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]

OVECHKIN, V. V.
The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Peryshkin, E. I. Rzhekhina, and V. S. Shpinel'. 9, 1189 (1967) [9, 1519 (1967)]

PADO, G. S.
Oscillations of the Current in Piezoelectric Semiconductors. (E) V. I. Baibakov and G. S. Pado. 9, 1678 (1968) [9, 2135 (1967)]
Investigation of Electrical and Elastic Properties of Hexagonal Zinc Sulfide in the Temperature Range 1.5–300°K. (E) I. B. Kobyakov and G. S. Pado. 9, 1707 (1968) [9, 2173 (1967)]
Amplification of Longitudinal Acoustic Waves in CdS. (E) G. S. Pado and V. I. Baibakov. 9, 2373 (1968) [9, 3010 (1967)]

PALATNIK, L. S.
An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 588 (1967) [9, 751 (1967)]
A Diffractometer Investigation of the Structure of Amorphous Gallium Using Electron Diffraction with a Retarding Field. B. T. Boiko, L. S. Palatnik, and A. S. Derevyanchenko. 9, 1278 (1967) [9, 1625 (1967)]
Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]

Defects in the Crystal Structure of Condensed Bismuth Films. (E) A. I. Fedorenko, L. S. Palatnik, and V. M. Kosevich. 9, 2238 (1968) [9, 2846 (1967)]

PANCHEKHA, P. A.
Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]

PANCHENKO, O. A.
Effect of Adsorption of Cs, Ba, Th, and Cu Atoms and of an Electric Field on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 501 (1967) [9, 651 (1967)]
Influence of the Adsorption of Oxygen on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 2782 (1968) [9, 3533 (1967)]

PANOVA, Ya. I.
Electrical Properties of Rutile Containing Dissolved Niobium. (E) N. P. Bogoroditskii, V. Kristya, and Ya. I. Panova. 9, 187 (1967) [9, 253 (1967)]

PANTELEEV, V. A.
Diffusion and Electrotransport of Indium and Silver along Dislocations in Silicon. (E) V. A. Sterkhov, V. A. Panteleev, and P. V. Pavlov. 9, 533 (1967) [9, 681 (1967)]

PAPKOV, V. S.
Relationship between the Damage of Ruby Crystals during Laser Emission and the Optical Homogeneity. (E) E. M. Akulenok, V. S. Papkov, and V. Ya. Khaimov-Mal'kov. 9, 1627 (1968) [9, 2075 (1967)]

PARANGTOPO
X-Ray Determination of Dispersion Curves of the Ionic Crystals KCl and KI. (E) V. I. Iveronova, Parangtopo, and A. P. Zvyagina. 9, 1265 (1967) [9, 1609 (1967)]

PARFENOVA, N. N.
Initial Permeability of Cobalt–Zinc Ferrites. (E) S. A. Poltinnikov, N. N. Parfenova, and T. D. Yurchenko. 9, 1230 (1967) [9, 1558 (1967)]

PARIISKII, V. B.
Temperature Dependence of Dislocation Mobility in KBr Single Crystals. (E/T) V. B. Pariiskii and A. I. Tret'yak. 9, 1933 (1968) [9, 2457 (1967)]

PASHKOVSKII, M. V.
Coalescence of F Centers in Photochemically Colored NaCl and KCl Crystals Containing Anion Impurities. (E) N. A. Tsal', M. V. Pashkovskii, and R. I. Didyk. 9, 175 (1967) [9, 237 (1967)]
EPR of Cu^{2+} in $ZnWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 268 (1967) [9, 352 (1967)]
Electrical Effects in the EPR of Cu^{2+} in $CdWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 1926 (1968) [9, 2450 (1967)]

PAVLENKO, A. V.
Anisotropy of the Ultrasonic Attenuation Factor in Yttrium Garnet. (E) A. Nasyrov and A. V. Pavlenko. 9, 205 (1967) [9, 276 (1967)]

PAVLOV, A. N.
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]

PAVLOV, P. V.
Self-Diffusion of Germanium along "Intrinsic" Dislocations in an External Electric Field. (E) V. A. Sterkhov and P. V. Pavlov. 9, 495 (1967) [9, 643 (1967)]
Diffusion and Electrotransport of Indium and Silver along Dislocations in Silicon. (E) V. A. Sterkhov, V. A. Panteleev, and P. V. Pavlov. 9, 533 (1967) [9, 681 (1967)]
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]
Surface Properties of Silicon after Irradiation with Ions Having Moderate Energies. (E) P. V. Pavlov and Yu. S. Popov. 9, 2431 (1968) [9, 3082 (1967)]
Investigation of the Distribution of Boron Atoms in Silicon Doped by Ion Bombardment. (E) E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 2874 (1968) [9, 3642 (1967)]

PAVLOV, S. T.
The Spin-Phonon Interaction of Electrons and the Oscillations of the Longitudinal Magnetoresistance in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. 9, 1394 (1967) [9, 1780 (1967)]

PAVLOVSKII, M. N.
Formation of Metallic Modifications of Germanium and Silicon under Shock Loading. (E) M. N. Pavlovskii. 9, 2514 (1968) [9, 3192 (1967)]

PECHENEZHSKII, V. I.
Internal Friction in Zirconium Dioxide at Temperatures in the Range 20–1250°C. (E) A. I. Kovalev and V. I. Pechenezhskii. 9, 278 (1967) [9, 363 (1967)]

PEKAR, S. I.
A Method for Determining the Conduction Band Structure and the Effective Mass of Electrons in Crystals from Electron–Nuclear Double Resonance Data. (T/E) V. G. Grachev, M. F. Deigen, and S. I. Pekar. 9, 2489 (1968) [9, 3157 (1967)]

PELETMINSKII, S. V.
Theory of Transport Phenomena in Conductors in a Strong Magnetic Field. (T) S. V. Peletminskii and D. D. Tskhakaya. 9, 619 (1967) [9, 790 (1967)]

PEREKALINA, T. M.
Magnetocrystalline Anisotropy of Hexagonal Ferrite Single Crystals of the System $Ba_2Co_xZn_{2-x}Fe_{12}O_{22}$. (E) N. N. Agapova and T. M. Perekalina. 9, 1825 (1968) [9, 2330 (1967)]
Ferrimagnetism of Hexagonal Ferrites. (E) T. M. Perekalina and V. P. Cheparin. 9, 2524 (1968) [9, 3205 (1967)]

PEREL', V. I.
Conditions for the Existence of Slow and Fast Recombination Waves in Semiconductors. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 9, 1381 (1967) [9, 1761 (1967)]
Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. (T) S. L. Ginzburg, O. V. Konstantinov, and V. I. Perel'. 9, 1684 (1968) [9, 2139 (1967)]
Theory of Acoustic Plasma Waves in Bismuth. (T) O. V. Konstantinov and V. I. Perel'. 9, 2409 (1968) [9, 3051 (1967)]

PERLIN, Yu. E.
Ground-State Energy of a Bound Polaron. (T/E) Yu. E. Perlin and Sh. N. Gifeisman. 9, 2165 (1968) [9, 2752 (1967)]

PERMYAKOV, V. G.
Relaxation of Stresses in a Silicon Single Crystal. (E) I. V. Gridneva, Yu. V. Mil'man, V. G. Permyakov, and V. I. Trefilov. 9, 417 (1967) [9, 547 (1967)]

PERYSHKIN, A. I.
The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Peryshkin, E. I. Rzhekhina, and V. S. Shpinel'. 9, 1189 (1967) [9, 1519 (1967)]

PESCHANSKII, V. G.
A Contribution to the Kinetic Theory of Acoustic Absorption in Metals. (T) M. I. Kaganov and V. G. Peschanskii. 9, 2810 (1968) [9, 3570 (1967)]

PESKOVATSKII, S. A.
Nonequilibrium States in the Spin System of the Fe^{3+} Ion in Andalusite. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. 9, 1040 (1967) [9, 1329 (1967)]

PETRAKOVSKII, G. A.
Theory of Saturation of Parametric Resonance of Spin Waves in Ferrites. (T) G. A. Petrakovskii. 9, 1658 (1968) [9, 2113 (1967)]
Temperature Dependence of the Magnetostriction Constants of Single Crystals of Yttrium-Gallium Ferrites Measured by the Microwave Method. (E/T) G. A. Petrakovskii, É. M. Smokotin, and A. G. Titova. 9, 1820 (1968) [9, 2324 (1967)]

PETROV, É. G.
Distribution of Magnetic Moment Density in a Ferromagnet Near the Surface. (T) É. G. Petrov. 9, 582 (1967) [9, 743 (1967)]

Interaction of Spin Waves and Polarons in a Ferromagnetic Dielectric. (T) É. G. Petrov. 9, 867 (1967) [9, 1109 (1967)]
Equations of Motion for the Magnetization and Equations for the Temperature Change in a Ferrodielectric. (T) É. G. Petrov and A. A. Yatsenko. 9, 2022 (1968) [9, 2568 (1967)]
PETROV, M. P.
Spatial Oscillations of Spin Density and Nuclear Magnetic Resonance in $RbCoF_3$. (T) M. P. Petrov and G. M. Nedlin. 9, 2556 (1968) [9, 3246 (1967)]
PETROVA, I. I.
Properties of Solid Solutions of Hexagonal Ferrites Having Z- and W-Type Structures. (E) I. I. Petrova. 9, 738 (1967) [9, 944 (1967)]
Magnetic Structure of the Hexaferrite $Ba_2Me_2Fe_{28}O_{46}$ (Me_2Z). (E) I. I. Petrova, M. A. Vinnik, and L. N. Grigor'eva. 9, 2389 (1968) [9, 3026 (1967)]
PETUKHOV, B. V.
States of Electrons Localized at Surface Charges. (T) B. V. Petukhov, V. L. Pokrovskii, and A. V. Chaplik. 9, 51 (1967) [9, 70 (1967)]
PIGUZOV, Yu. V.
Determination of the Size of Regions of Concentration Inhomogeneity in Certain Single-Phase Silver-Base Alloys from Measurements of the Zener Relaxation. (E) K. M. Shrakhman and Yu. V. Piguzov. 9, 2034 (1968) [9, 2586 (1967)]
PIKALEV, É. M.
Coupled Electromagnetic, Plasma, and Spin Waves in Helicoidal Magnetic Structures in a Magnetic Field. (T) É. M. Pikalev and M. A. Savchenko. 9, 2817 (1968) [9, 3579 (1967)]
PIKALOVA, I. S.
Some Physical Processes in Rocksalt in Strong Electric Fields. (E) G. A. Vorob'ev and I. S. Pikalova. 9, 755 (1967) [9, 961 (1967)]
PIKHTIN, A. N.
Dispersion of the Index of Refraction of Gallium Phosphide. (T/E) A. N. Pikhtin and D. A. Yas'kov. 9, 107 (1967) [9, 145 (1967)]
Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]
PIKUS, G. E.
Combination Resonance of Holes in Ge and Si Type Semiconductors. (T) G. L. Bir, E. I. Butikov, and G. E. Pikus. 9, 835 (1967) [9, 1068 (1967)]
PIL'DON, V. I.
Detection of Precipitates in Silicon Following Boron Diffusion. (E) V. M. Al'tshuller and V. L. Pil'don. 9, 648 (1967) [9, 830 (1967)]
PILIPENKO, G. I.
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Pilipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]
PILIPETSKII, N. F.
Mechanism of the Interaction between a Laser Light Beam and Light-Sensitive Glass. (E) L. I. Mirkin, N. F. Pilipetskii, and É. M. Rabinovich. 9, 1877 (1968) [9, 2400 (1967)]
PIL'SHCHIKOV, A. I.
Effect of Mn^{3+} Ions on Relaxation Processes in Ferrites. (E) E. V. Lebedeva, A. I. Pil'shchikov, and E. K. Yur'eva. 9, 237 (1967) [9, 317 (1967)]
Some Characteristics of Parametric Excitation of Spin Waves in Ferrite Single Crystals. (E) E. V. Lebedeva and A. I. Pil'shchikov. 9, 2862 (1968) [9, 3630 (1967)]
PISAREV, R. V.
Infrared Absorption Spectrum of the Antiferromagnets $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova, I. G. Sinii, R. V. Pisarev, and P. P. Syrnikov. 9, 15 (1967) [9, 21 (1967)]
Fine Structure of the Ground State of Co^{2+} in $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova and R. V. Pisarev. 9, 1220 (1967) [9, 1550 (1967)]
Energies and Intensities of Electron Transitions in $RbCoF_3$. (E) R. V. Pisarev and S. D. Prokhorova. 9, 1482 (1968) [9, 1879 (1967)]
Rotation of the Plane of Polarization of Light and Magnetic Circular Dichroism in Ferrimagnetic $RbNiF_3$. (E) R. V. Pisarev, I. G. Sinii, and G. A. Smolenskii. 9, 2482 (1968) [9, 3149 (1967)]
PISKOVOI, V. N.
Theory of Sound and Drift Waves in Crystals Having a Large Dielectric Constant. (T) Yu. A. Kukibayi and V. N. Piskovoi. 9, 1737 (1968) [9, 2215 (1967)]
PKHAKADZE, M. G.
Modulation of the Charge Density of a Beam Resulting from Interaction with a Plasma in a Solid. (T) G. A. Baramidze and M. G. Pkhakadze. 9, 293 (1967) [9, 382 (1967)]
Cerenkov Radiation of a Modulated Charge Beam in Passing through a Slit in a Solid Body. (T) M. G. Pkhakadze. 9, 301 (1967) [9, 394 (1967)]
PLAKHTII, V. P.
Neutron Diffraction Study of Atomic and Magnetic Structures of Calcium–Vanadium–Ferrite Garnet. (E) V. P. Plakhtii, G. P. Gordeev, A. A. Kuzina, and É. I. Turkevich. 9, 1762 (1968) [9, 2247 (1967)]
Statistics of Indirect Exchange in Calcium–Vanadium Garnets. (E) V. P. Plakhtii. 9, 1889 (1968) [9, 2416 (1967)]
PLATKOV, V. Ya.
Investigation of Some Dynamic Characteristics of Dislocations in Potassium Bromide Crystals by the Internal Friction Method. (E) V. Ya. Platkov, V. P. Efimenko, and V. I. Startsev. 9, 2200 (1968) [9, 2799 (1967)]
PLATONOV, A. N.
Optical Spectrum of Fe^{2+} in Sphalerite. (E) A. S. Marfunin, A. N. Platonov, and V. E. Federov. 9, 2847 (1968) [9, 3616 (1967)]
PODD'YAKOV, V. N.
Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Beilin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Podd'yakov. 9, 1467 (1968) [9, 1861 (1967)]
POKROVSKII, V. L.
States of Electrons Localized at Surface Charges. (T) B. V. Petukhov, V. L. Pokrovskii, and A. V. Chaplik. 9, 51 (1967) [9, 70 (1967)]
POLANDOV, I. N.
Change in the Nature of the Phase Transition in Barium Titanate Single Crystals under Hydrostatic Pressure. (E) I. N. Polandov, B. A. Strukov, and V. P. Mylov. 9, 1153 (1967) [9, 1477 (1967)]
Investigation of $Ba(Ti,Sn)O_3$ Ferroelectric Ceramics at High Pressures. (E) I. N. Polandov and V. P. Mylov. 9, 1816 (1968) [9, 2319 (1967)]
Changes in the Dielectric Properties of Triglycine Fluoberylate under the Action of Hydrostatic Pressure. (E) V. P. Mylov, I. N. Polandov, and B. A. Strukov. 9, 2375 (1968) [9, 3012 (1967)]
POLIKARPOVA, I. P.
Self-Diffusion of Cs^{134} and I^{131} in Single Crystals and Polycrystalline Samples of Cesium Iodide. (E) S. M. Klotsman, I. P. Polikarpova, A. N. Timofeev, and I. Sh. Trakhtenberg. 9, 1956 (1968) [9, 2487 (1967)]
POLITOV, N. G.
Low-Temperature Internal-Friction Peaks in Lithium Fluoride Crystals. (E) N. G. Politov and D. G. Driyaev. 9, 1306 (1967) [9, 1534 (1967)]
EPR of Colloidal Lithium in Neutron-Irradiated LiF Crystals. (E) L. I. Dzhordzhishvili, T. L. Kalabegishvili, N. G. Politov, and S. V. Sobolevskaya. 9, 2348 (1968) [9, 2986 (1967)]
POLTINNIKOV, S. A.
Initial Permeability of Ferrite Garnets Containing Vanadium Ions. (E) S. A. Poltinnikov and O. B. Proskuryakov. 9, 736 (1967) [9, 942 (1967)]
Initial Permeability of Cobalt–Zinc Ferrites. (E) S. A. Poltinnikov, N. N. Parfenova, and T. D. Yurchenko. 9, 1230 (1968) [9, 1558 (1967)]
POLUÉKTOV, I. A.
Light Absorption by Free Current Carriers in a Semiconductor Placed in a Quantizing Magnetic Field. (T) I. A. Poluéktov and Yu. M. Popov. 9, 1079 (1967) [9, 1382 (1967)]

The Possibility of the Generation of Vacuum Ultraviolet Radiation by Electron Excitation of Inert-Gas Crystals. (E) A. G. Molchanov, I. A. Poluéktov, and Yu. M. Popov. 9, 2655 (1968) [9, 3383 (1967)]

POLYAKOV, V. P.
Saturation Magnetization and Néel Temperature of Dilute Ferrite Solid Solutions. (T/E) V. P. Polyakov. 9, 2224 (1968) [9, 2830 (1967)]

POMORTSEV, R. V.
Oscillations of the Phonon Radiation Power in a Quantizing Magnetic Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 1150 (1967) [9, 1473 (1967)]
Effect of Optical-Phonon Heating on the Magnetophonon Resonance in a Strong Electric Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 2256 (1968) [9, 2870 (1967)]

PONOMAREV, Ya. G.
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]

POPLAVKO, Yu. M.
Investigation of Antiferroelectrics at Millimeter Wavelengths. (E) Yu. M. Poplavko and V. G. Tsykalov. 9, 2600 (1968) [9, 3305 (1967)]
Temperature Characteristics of Varikonds in the 3 cm Range of Wavelengths. (E) T. N. Verbitskaya, Yu. M. Poplavko, and B. Ya. Yazytskii. 9, 2634 (1968) [9, 3344 (1967)]

POPLAVSKAYA, E. A.
Polymorphic Transitions Caused by Crushing of Zinc Sulfide Phosphor Crystals and the Influence of These Transitions on Luminescence Properties. (E) E. A. Poplavskaya, G. G. Kharin, and A. E. Bryukhanov. 9, 2757 (1968) [9, 3501 (1967)]

POPOV, Yu. M.
Light Absorption by Free Current Carriers in a Semiconductor Placed in a Quantizing Magnetic Field. (T) I. A. Poluéktov and Yu. M. Popov. 9, 1079 (1967) [9, 1382 (1967)]
The Possibility of the Generation of Vacuum Ultraviolet Radiation by Electron Excitation of Inert-Gas Crystals. (E) A. G. Molchanov, I. A. Poluéktov, and Yu. M. Popov. 9, 2655 (1968) [9, 3383 (1967)]

POPOV, Yu. S.
Surface Properties of Silicon after Irradiation with Ions Having Moderate Energies. (E) P. V. Pavlov and Yu. S. Popov. 9, 2431 (1968) [9, 3082 (1967)]

POPOVICH, B. N.
Spiral Etch Pits in Germanium. (E) Yu. P. Khukhryanskii, M. I. Shchevelev, and B. N. Popovich. 9, 816 (1967) [9, 1042 (1967)]

PORTNOI, E. L.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

POSPELOV, Yu. A.
Some Integral Relationships between $\sigma_{xx}(H_z)$ and $\sigma_{xy}(H_z)$ for Bismuth-Type Metals. (T) Yu. A. Pospelov. 9, 451 (1967) [9, 589 (1967)]

POSTNIKOV, V. S.
Recovery of Plastically Deformed Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 167 (1967) [9, 227 (1967)]
High-Temperature Internal Friction of Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 1218 (1967) [9, 1547 (1967)]

POSTOVALOV, V. G.
Correction to the Paper of Yu. P. Irkhin and V. G. Postovalov "Types of Spin-Orbital Interactions and the Spontaneous Hall Effect at Low Temperatures." (T) Yu. P. Irkhin and V. G. Postovalov. 9, 989 (1967) [9, 1262 (1967)]

POTKIN, L. I.
EPR, Spin-Lattice Relaxation, and Optical Absorption in Magnesium Tungstate Containing Cobalt Impurity. (E) V. A. Atsarkin, S. K. Morshnev, and L. I. Potkin. 9, 660 (1967) [9, 846 (1967)]

POTYKEVICH, I. V.
Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Masevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 983 (1967)]

POVITSKII, V. A.
Mössbauer and X-Ray Investigations of a Finely Divided Fe + 12 at.% Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]

POZHELA, Yu. K.
Recombination of Hot Carriers on a Real Surface of n-Type Germanium. (E) S. P. Kal'venas, L. A. Klimka, and Yu. K. Pozhela. 9, 729 (1967) [9, 936 (1967)]
Heating of Carriers in Thin Samples of Germanium. (E) S. P. Kal'venas and Yu. K. Pozhela. 9, 997 (1967) [9, 1270 (1967)]

POZVONKOVA, R. T.
Theoretical Determination of the Stacking-Fault Energy in Nontransition Metals. (T) G. L. Krasko, V. N. Teliyants, R. T. Pozvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]

PREDVODITELEV, A. A.
Stabilization of Quenched-in Stacking Fault Tetrahedra in Copper Containing Aluminum as an Impurity. (E) V. N. Rozhanskii, V. V. Kirichenko, and A. A. Predvoditelev. 9, 131 (1967) [9, 175 (1967)]
The Motion of Edge Dislocations at Low Stresses in Sodium Chloride Crystals. (E/T) A. A. Predvoditelev, N. K. Rakova, and Nang Hung-pin. 9, 224 (1967) [9, 300 (1967)]
Formation of Vacancies during Diffusion of Metal Atoms through a Surface Oxide Film and Influence of the Ambient Medium on the Dislocation Structure. (E) V. N. Rozhanskii, A. A. Predvoditelev, and V. L. Indenbom. 9, 593 (1967) [9, 757 (1967)]
Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Berezhkova. 9, 783 (1967) [9, 997 (1967)]

PRESNOV, V. A.
Paramagnetic Resonance of Shallow Acceptors in Gallium Arsenide. (E) S. P. Fedotov, V. A. Presnov, and V. K. Bazhenov. 9, 2620 (1968) [9, 3332 (1967)]

PRIKHOT'KO, A. F.
Influence of Impurities on Polymorphic Transitions in Octahydroanthracene Crystals. (E) V. N. Vatulev and A. F. Prikhot'ko. 9, 2739 (1968) [9, 3475 (1967)]

PROCHUKHAN, V. D.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

PROKHOROV, Yu. A.
Dielectric Films Produced by Reactive Sputtering. (E) Yu. A. Prokhorov, V. V. Shakmanov, L. B. Shelyakin, and V. E. Yurasova. 9, 1091 (1967) [9, 1398 (1967)]

PROKHOROVA, S. D.
Energies and Intensities of Electron Transitions in $RbCoF_3$. (E) R. V. Pisarev and S. D. Prokhorova. 9, 1482 (1968) [9, 1879 (1967)]

PROKHVATILOV, A. I.
Creep of Solid Ammonia. (E) A. I. Prokhvatilov, T. V. Sil'vestrova, and D. N. Bol'shutkin. 9, 546 (1967) [9, 693 (1967)]
Plastic Deformation of Ammonia Single Crystals. (E) A. I. Prokhvatilov. 9, 2610 (1968) [9, 3318 (1967)]

PROKOPALO, O. I.
Low-Frequency Electrical Oscillations in Barium Titanate. (E) V. A. Servuli, E. V. Zarochentsev, and O. I. Prokopalo. 9, 1919 (1968) [9, 2444 (1967)]

PROKOP'EV, E. P.
Positronium Atom in Solids. (T) E. P. Prokop'ev. 9, 993 (1967) [9, 1266 (1967)]

PROSKURYAKOV, O. B.
Initial Permeability of Ferrite Garnets Containing Vanadium Ions. (E) S. A. Poltinnikov and O. B. Proskuryakov. 9, 736 (1967) [9, 942 (1967)]
Ferromagnetic Resonance in Calcium-Bismuth-Vanadium-Gallium Garnet. (E) A. N. Ageev and O. B. Proskuryakov. 9, 2858 (1968) [9, 3626 (1967)]

PRZHEVUSKII, A. K.
Deformational Splitting of Luminescence Spectrum Lines and the Structures of Exchange-Linked Pairs of Chromium Ions in Ruby. (E/T) A. A. Kaplyanskii and A. K. Przhevuskii. 9, 190 (1967) [9, 257 (1967)]

PSHISUKHA, A. M.
Magnetic Ordering of Zinc Tungstate with a High Concentration of Manganese Impurity. (E) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 9, 2152 (1968) [9, 2739 (1967)]

PTITSYNA, N. G.
Detection of Cyclotron Resonance from Changes in the Static Conductivity. (E) E. M. Gershenzon, Yu. A. Gurvich, N. G. Ptitsyna, and S. L. Orlova. 9, 543 (1967) [9, 691 (1967)]

PTUSHINSKII, Yu. G.
Effect of Adsorption of Cs, Ba, Th, and Cu Atoms and of an Electric Field on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 501 (1967) [9, 651 (1967)]
Influence of the Adsorption of Oxygen on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 2782 (1968) [9, 3533 (1967)]

PUGACHEVA, T. S.
Effect of Thermal Vibrations on the Propagation of Chains of Atom-Atom Collisions in Crystals. (T) T. S. Pugacheva. 9, 75 (1967) [9, 102 (1967)]
Influence of Temperature on the Distribution of the Lengths of Correlated Collison Chains Occurring in Cascades during the Irradiation of Copper Crystals. (E) T. S. Pugacheva and I. Safarbaev. 9, 508 (1967) [9, 659 (1967)]

PUKH, V. P.
Nature of the Damage of High-Strength Glass and Possibilities of Protecting Glass. (E) L. G. Baikova, F. F. Vitman, T. G. Dmitrieva, and V. P. Pukh. 9, 365 (1967) [9, 480 (1967)]
Influence of Heat Treatment on the High-Strength State of Glass. (E) L. G. Baikova, F. F. Vitman, and V. P. Pukh. 9, 1716 (1968) [9, 2185 (1967)]

PUKHOV, K. K.
Spin-Lattice Relaxation in Kramers Systems. (T/E) I. V. Aleksandrov and K. K. Pukhov. 9, 906 (1967) [9, 1159 (1967)]

RABINOVICH, A. Z.
Pyroelectric Effect and Spontaneous Polarization in $LiTaO_3$. (E) M. B. Rottberg, Z. I. Shapiro, and A. Z. Rabinovich. 9, 2843 (1968) [9, 3613 (1967)]

RABINOVICH, É. M.
Mechanism of the Interaction between a Laser Light Beam and Light-Sensitive Glass. (E) L. I. Mirkin, N. F. Pilipetskii, and É. M. Rabinovich. 9, 1877 (1968) [9, 2400 (1967)]

RABUKHIN, V. B.
Variation of Ultrasonic Absorption in Fast and Programmed Loading. (E/T) I. A. Gindin, I. M. Neklyudov, and V. B. Rabukhin. 9, 1410 (1967) [9, 1802 (1967)]

RAIKHEL'S, E. I.
Effect of Heat Treatment on the Structural Perfection of NaCl(Pb) Single Crystals Grown from Solution. (E) T. V. Kuskova, E. I. Raikhel's, I. V. Smushkov, and T. V. Tyutyunnikova. 9, 718 (1967) [9, 928 (1967)]
Change in Substructure of Lithium Fluoride Single Crystals during Isothermal Annealing. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 9, 1176 (1967) [9, 1505 (1967)]
Some Properties of the Structure of a Surface Layer on Lithium Fluoride Crystals after Annealing. (E) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 9, 2379 (1968) [9, 3016 (1967)]

RAKOVA, N. K.
The Motion of Edge Dislocations at Low Stresses in Sodium Chloride Crystals. (E/T) A. A. Predvoditelev, N. K. Rakova, and Nang Hung-pin. 9, 224 (1967) [9, 300 (1967)]

RAPATSKAYA, I. V.
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

RASHBA, É. I.
Characteristics of the Electric Pinch Effect in Many-Valley Bipolar Semiconductors. (T/E) Z. S. Gribnikov and É. I. Rashba. 9, 760 (1967) [9, 967 (1967)]

RASHEVSKAYA, E. P.
Investigation of Defects Generated during the Heat Treatment of Oxygen-Bearing Silicon. (E) I. L. Shul'pina, L. V. Lainer, M. G. Mil'vidskii, and E. P. Rashevskaya. 9, 1291 (1967) [9, 1641 (1967)]
Infrared Absorption Spectra of Gallium Arsenide Heavily Doped with Sulfur, Selenium, and Tellurium. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 1443 (1967) [9, 1835 (1967)]
Infrared Absorption of Gallium Arsenide Doped with Group VI Impurities. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 2849 (1968) [9, 3618 (1967)]

RATNER, I. M.
Using Lattice at Negative Absolute Temperatures. (E) I. M. Ratner. 9, 1652 (1968) [9, 2107 (1967)]

RAVICH, V. N.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkin, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

RAZUMOVA, T. K.
Experimental Investigation of the Optical Properties and of the Nonlinear Absorption Mechanism of Glass Containing Cadmium Selenide. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 9, 1776 (1968) [9, 2265 (1967)]

REGEL', A. R.
Influence of Hydrostatic Pressure on the Electrical Properties of Single Crystals on the Solid Solution 0.85PbTe + 0.15PbS. (E) S. Kasimov, A. A. Averkin, and A. R. Regel'. 9, 99 (1967) [9, 134 (1967)]
Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]
Peltier Coefficient for a Boundary Separating Solid and Liquid Phases of Tin- and Tellurium-Doped Bismuth. (E) G. V. Komarov and A. R. Regel'. 9, 2384 (1968) [9, 3021 (1967)]
Optical Width of the Forbidden Band in PbTe–PbS Solutions. (E) S. Kasimov, A. R. Regel', and V. K. Subashiev. 9, 2885 (1968) [9, 3653 (1967)]
Electrical Conductivity and Thermoelectric Power of Molten Ag_2S Containing Excess Sulfur. (E) I. N. Vechko, A. V. Ditman, and A. R. Regel'. 9, 2902 (1968) [9, 3689 (1967)]

REIFMAN, M. B.
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

RESNYANSKII, V. F.
Photoemission from a NaCl Crystal Stimulated by an Electric Discharge. (E/T) D. M. Mambetov and V. F. Resnyanskii. 9, 1417 (1967) [9, 1808 (1967)]

REWAJ, T.
Temperature Dependence of the Cubic Splitting of EPR Spectra of Eu^{2+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 9, 2340 (1968) [9, 2978 (1967)]

REZ, I. S.
Electrooptical and Elastooptical Properties of Alkali Metal Dihydrogen Arsenates. (E) A. S. Vasilevskaya, A. S. Sonin, and I. S. Rez. 9, 986 (1967) [9, 1260 (1967)]

REZNICHENKO, V. Ya.
Luminescence of Mixed ZnS_x-CdS_{1-x} Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. V. Zakrevskii, and V. Ya. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]

RINKYAVICHYUS, V. S.
Pyroelectric Effect in Antimony Trisulfide Single Crystals. (E) V. S. Rinkyavichyus and M. P. Mikalkevichyus. 9, 2360 (1968) [9, 2997 (1967)]

ROGACHEV, A. A.
Reduction of the Forbidden-Band Width of a Heavily Doped Semiconductor. (T/E) A. A. Rogachev. 9, 283 (1967) [9, 369 (1967)]

ROITBERG, M. B.
Pyroelectric Effect and Spontaneous Polarization in $LiTaO_3$. (E) M. B. Roitberg, Z. I. Shapiro, and A. Z. Rabinovich. 9, 2843 (1968) [9, 3613 (1967)]

ROITSIN, A. B.
Measurement Feasibility of the Third Crystal-Field Constant of Cr^{3+} Ions in $ZnWO_4$-Type Crystals. (E) A. B. Roitsin. 9, 2891 (1968) [9, 3659 (1967)]

ROMAN, G. A.
Ultrasonic Absorption in Antiferromagnets. (T) G. A. Roman and B. I. Shklovskii. 9, 2196 (1968) [9, 2794 (1967)]

ROMANOV, V. A.
Determination of the Lifetime and Mobility of Nonequilibrium Holes in Cadmium Sulfide Single Crystals. (E) V. E. Lashkarev, V. K. Malyutenko, and V. A. Romanov. 9, 323 (1967) [9, 422 (1967)]

ROMASHINA, T. Yu.
Electrical Conductivity of Iron near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. 9, 1459 (1967) [9, 1851 (1967)]

ROZENBAUM, L. B.
Magnetic Lag and Dynamic High-Frequency Absorption in Ferrites. (E/T) L. B. Rozenbaum. 9, 1013 (1967) [9, 1294 (1967)]

ROZHANSKII, V. N.
Stabilization of Quenched-in Stacking Fault Tetrahedra in Copper Containing Aluminum as an Impurity. (E) V. N. Rozhanskii, V. V. Kirichenko, and A. A. Predvoditelev. 9, 131 (1967) [9, 175 (1967)]

Formation of Vacancies during Diffusion of Metal Atoms through a Surface Oxide Film and Influence of the Ambient Medium on the Dislocation Structure. (E) V. N. Rozhanskii, A. A. Predvoditelev, and V. L. Indenbom. 9, 593 (1967) [9, 757 (1967)]

Investigation of the Dislocation Structure of Silicon Deformed during the Easy Slip Stage. (E) Yu. V. Malov and V. N. Rozhanskii. 9, 805 (1967) [9, 1028 (1967)]

Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Bereshkova. 9, 783 (1967) [9, 997 (1967)]

The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Rozhanskii. 9, 2448 (1968) [9, 3104 (1967)]

Electric Domains in Corundum Plates and the Electric Effects Related to Formation of Laminar Filamentary Crystals. (E/T) V. N. Rozhanskii and G. V. Bereshkova. 9, 2465 (1968) [9, 3126 (1967)]

A New Method for Precision Determination of Interplanar Spacings from Patterns Taken in a Divergent Beam of X Rays. (E/T) V. V. Lider and V. N. Rozhanskii. 9, 2787 (1968) [9, 3539 (1967)]

ROZMAN, G. A.
Correlation between Divalent Cation Impurity and Dipolon Concentration in Alkali-Halide Crystals. (E) G. A. Rozman. 9, 2392 (1968) [9, 3029 (1967)]

RUBANOVA, G. M.
Experimental Investigation of the Optical Properties and of the Nonlinear Absorption Mechanism of Glass Containing Cadmium Selenide. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 9, 1776 (1968) [9, 2265 (1967)]

RUBINSHTEIN, B. E.
Ferromagnetic Resonance in Single Crystals of Bismuth–Calcium–Iron–Vanadium Garnet. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 134 (1967) [9, 179 (1967)]

Biquadratic Indirect Exchange in Yttrium Garnet. (E) B. E. Rubinshtein. 9, 990 (1967) [9, 1263 (1967)]

Magnetic Crystallographic Anisotropy of Indium-Substituted Yttrium Garnets. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 2124 (1968) [9, 2707 (1967)]

RUDASHEVSKII, G. E.
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Igitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

RUDYAK, V. M.
Polarization Discontinuities in Ferroelectric SbSI Caused by Illumination. (E) V. M. Rudyak and A. A. Bogomolov. 9, 2624 (1968) [9, 3336 (1967)]

RUKHADZE, A. A.
Excitation of Electromagnetic Waves in a Solid-State Plasma in the Presence of a Negative Current-Voltage Characteristic. (T) R. R. Kikvidze, A. A. Rukhadze, and E. P. Fetisov. 9, 1055 (1967) [9, 1349 (1967)]

RUMSH, M. A.
Relationship between the Ranges of Fast and Slow Electrons in Alkali-Halide Compounds. (E) L. G. Eliseenko, V. N. Shchemelev, and M. A. Rumsh. 9, 128 (1967) [9, 171 (1967)]

Penetration of Electrons with Moderate Energies into a Solid. (T/E) L. A. Smirnov and M. A. Rumsh. 9, 2653 (1968) [9, 3361 (1967)]

RUMYANTSEV, A. A.
Theory of the Photoelectric Effect in Finite Crystals at High Frequencies and in the Presence of an External Magnetic Field. (T) L. É. Gurevich and A. A. Rumyantsev. 9, 55 (1967) [9, 75 (1967)]

RUMYANTSEV, V. V.
Fine Shape for the Characteristic Energy Losses of Electrons in Solids. (T) V. V. Rumyantsev. 9, 1860 (1968) [9, 2377 (1967)]

RUSOV, G. I.
Ferromagnetic and Spin-Wave Resonances in Fe–Ni Alloy Thin Films. (E) G. I. Rusov. 9, 146 (1967) [9, 196 (1967)]

Conditions for Ferromagnetic Resonance in Single-Crystal Films. (T/E) V. A. Ignatchenko and G. I. Rusov. 9, 1650 (1968) [9, 2105 (1967)]

RYABCHENKO, S. M.
Moments of EPR Lines in Systems with Dominant Exchange Interaction. (T) S. M. Ryabchenko and L. A. Shul'man. 9, 2595 (1968) [9, 3298 (1967)]

RYABOVA, L. A.
Conductivity of Thin Indium Oxide Films. (E) V. F. Korzo and L. A. Ryabova. 9, 745 (1967) [9, 950 (1967)]

RYSAKOV, V. M.
Dependence of the Intensity of Stimulated Mandel'shtam-Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Rysakov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]

RYSKIN, A. I.
Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. (T/E) K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 9, 1553 (1968) [9, 1974 (1967)]

RYVKIN, S. M.
Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]

Concerning the Effect of Thermal Defects on the Radiation Stability of Germanium. (E) T. V. Mashovets, S. M. Ryvkin, and R. Yu. Khansevarov. 9, 407 (1967) [9, 535 (1967)]

Statistical Relationships Governing the Formation of Cracks in Polymethylmethacrylate under the Action of Laser Radiation. (E/T) V. I. Vladimirov, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]

Two-Photon Photoconductivity in CdS Excited with Giant Pulses from Ruby Laser. (E) B. M. Ashkinadze, A. A. Grinberg, S. M. Ryvkin, and I. D. Yaroshetskii. 9, 461 (1967) [9, 601 (1967)]

Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]

Influence of Uniaxial Compression on the Interimpurity Radiative Recombination in Germanium. (E) V. P. Dobrego, S. M. Ryvkin, and I. S. Shlimak. 9, 1131 (1967) [9, 1451 (1967)]

Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]

Dependence of the Intensity of Stimulated Mandel'shtam-Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Ryvakov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]

RZAEV, K. I.

Absorption of Ultrasonic Waves in a Tellurium Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 9, 2290 (1968) [9, 2912 (1967)]

RZHEKHINA, E. I.

The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Peryshkin, E. I. Rzhekhina, and V. S. Shpinel'. 9, 1189 (1967) [9, 1519 (1967)]

SAAKYAN, V. A.

Scattering of Phonons at Point Defects in the Solid Solutions $PbTe_xSe_{1-x}$ and Ge_xSi_{1-x}. (E/T) V. A. Saakyan. 9, 1885 (1968) [9, 2411 (1967)]

Forbidden-Band Width of PbSe at High Temperatures. (E) E. D. Devyatkova and V. A. Saakyan. 9, 2163 (1968) [9, 2750 (1967)]

SABUROVA, R. V.

Longitudinal Relaxation of Electric Dipoles in Crystals. (T) R. V. Saburova. 9, 1949 (1968) [9, 2478 (1967)]

SADYKOV, É. K.

Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]

SAFARBAEV, I.

Influence of Temperature on the Distribution of the Lengths of Correlated Collision Chains Occurring in Cascades during the Irradiation of Copper Crystals. (E) T. S. Pugacheva and I. Safarbaev. 9, 508 (1967) [9, 659 (1967)]

SAFRONOV, S. N.

Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR Lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1967) [9, 1403 (1967)]

SAKUN, V. P.

Spin-Lattice Relaxation in a Solid Containing Localized Defects. (T) V. P. Sakun. 9, 1880 (1968) [9, 2404 (1967)]

SALMANOV, V. M.

Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]

Statistical Relationships Governing the Formation of Cracks in Polymethylmethacrylate under the Action of Laser Radiation. (E/T) V. I. Valdimirov; V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]

Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]

Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]

SAMOKHIN, A. A.

Theory of Nonlinear Effects in Paramagnetic Spin Absorption. (T) A. A. Samokhin. 9, 446 (1967) [9, 583 (1967)]

"Rotary" Saturation in NMR. (T/E) A. A. Samokhin. 9, 752 (1967) [9, 956 (1967)]

Theory of Paramagnetic Absorption in an Isolated Spin-System. (T) A. A. Samokhin. 9, 1257 (1967) [9, 1597 (1967)]

SAMOKHVALOV, A. A.

Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]

Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]

Microwave Dielectric Properties of Ferrite Spinels. (E) A. A. Samokhvalov, S. A. Ismailov, and A. A. Obukhov. 9, 888 (1967) [9, 884 (1967)]

Ferro- and Paramagnetic Resonance of Divalent Europium Oxides. (E/T) A. A. Samokhvalov, V. S. Babushkin, and V. G. Bamburov. 9, 1239 (1967) [9, 1573 (1967)]

SANNIKOV, D. G.

Dielectric Resonance. (T) D. G. Sannikov. 9, 2244 (1968) [9, 2854 (1967)]

SARALIDZE, Z. K.

Effect of Irradiation on the Diffusional-Dislocational Flow of Crystals. (T) A. M. Kosevich, Z. K. Saralidze, and V. V. Slezov. 9, 697 (1967) [9, 895 (1967)]

SAVCHENKO, M. A.

Parametric Phenomena in Helicoidal Magnetic Structures. (T) M. A. Savchenko and V. V. Tarasenko. 9, 149 (1967) [9, 200 (1967)]

Antiferromagnets in Strong Magnetic Fields. (T/E) M. A. Savchenko and V. V. Tarasenko. 9, 2584 (1968) [9, 3284 (1967)]

Coupled Electromagnetic, Plasma, and Spin Waves in Helicoidal Magnetic Structures in a Magnetic Field. (T) É. M. Pikalev and M. A. Savchenko. 9, 2817 (1968) [9, 3579 (1967)]

SAVITSKII, A. V.

Magnetic Susceptibilities of Some Chalcogenides of the Rare-Earth Elements. (E) G. V. Lashkarev and A. V. Savitskii. 9, 1485 (1968) [9, 1883 (1967)]

SAVVINYKH, S. K.

Possible Application of Surface Elastic Waves to the Investigation of the Surface Properties of Semiconductors. (T) A. A. Karpushin and S. K. Savvinykh. 9, 893 (1967) [9, 1141 (1967)]

SAWICKI, B.

Mössbauer Effect in Covalent Iron Complexes at Low Temperatures. (E) B. Sawicki, J. Sawicki, and A. Z. Hrynkiewicz. 9, 1100 (1967) [9, 1410 (1967)]

SAWICKI, J.

Mössbauer Effect in Covalent Iron Complexes at Low Temperatures. (E) B. Sawicki, J. Sawicki, and A. Z. Hrynkiewicz. 9, 1100 (1967) [9, 1410 (1967)]

SAZONOV, A. M.

Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Sazonov. 9, 2096 (1968) [9, 2670 (1967)]

SEDOV, V. L.

Position Annihilation in Metals. (T) V. L. Sedov. 9, 1540 (1968) [9, 1957 (1967)]

SEISYAN, R. P.

Magnetooptical Oscillations of Absorption in Germanium Crystals Free of Mechanical Stresses. (E) A. V. Varfalomeev, B. P. Zakharchenya, and R. P. Seisyan. 9, 847 (1967) [9, 1085 (1967)]

SEKISOV, Yu. N.

Influence of Plastic Deformation on the Magnitude of the Mössbauer Effect. (E) V. S. Kortov, R. I. Mints, and Yu. N. Sekisov. 9, 2169 (1968) [9, 2755 (1967)]

SELIVANOV, L. V.

Use of a Comparison Method in Measurement of the Acoustoelectric emf. (E) L. V. Selivanov and Yu. E. Nevskii. 9, 1783 (1968) [9, 2274 (1967)]

SELYUTIN, G. Ya.
Effect of the Exchange Interaction of Magnetic Ions on the Intensities of Mössbauer Spectra. Sh. Sh. Bashkirov and G. Ya. Selyutin. 9, 2284 (1968) [9, 2904 (1967)]

SEMAK, D. G.
Thermally Stimulated Current Method under Photoelectret Conditions. (E) D. G. Semak, D. V. Chepur, and V. F. Zolotarev. 9, 966 (1967) [9, 1242 (1967)]

SEMENENKO, A. I.
Theory of the Absorption of Ultrasound by Graphite. (T) M. I. Kaganov and A. I. Semenenko. 9, 884 (1967) [9, 1129 (1967)]

SEMENOV, Ya. A.
Effect of Hydrostatic Pressure on the Refractive Index of Epitaxial PbS Films. (E) Ya. A. Semenov and A. Yu. Shileika. 9, 1419 (1967) [9, 1810 (1967)]

SEMENOVSKAYA, S. V.
Determination of the Thermodynamic Characteristics of Solid Solutions from Short-Range Order Parameters. (T/E) S. V. Semenovskaya. 9, 2690 (1968) [9, 3408 (1967)]

SEMUSHKIN, G. B.
Vacancy Concentration Variation in KBr Crystals during Electrolytic Coloration. (E) G. A. Andreev, G. B. Semushkin, and A. N. Tsikin. 9, 2564 (1968) [9, 3257 (1967)]

SEREBRYANAYA, N. R.
Investigation of $\alpha \rightleftarrows \beta$ Transition in GeTe–SnTe Alloys at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 9, 2527 (1968) [9, 3208 (1967)]

SEREGIN, P. P.
A Study of the State of Iron Ions in Silver Halides Using the Mössbauer Effect. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1110 (1967) [9, 1424 (1967)]
State of Iron Impurity Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1901 (1968) [9, 2428 (1967)]

SERVULI, V. A.
Low-Frequency Electrical Oscillations in Barium Titanate. (E) V. A. Servuli, E. V. Zarochentsev, and O. I. Prokopalo. 9, 1919 (1968) [9, 2444 (1967)]

SHADRICHEV, E. V.
Thermal Conductivity of Amorphous Bodies, As Illustrated by Porcelain. (E) E. V. Shadrichev, I. A. Smirnov, and V. V. Tikhonov. 9, 1909 (1968) [9, 2435 (1967)]

SHAKH-BUDAGOV, A. L.
Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]
Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]

SHAKHOVA, A. G.
Motion of Na^+ in a Diffusion Zone of the NaCl–NaBr System. (E) Ya. E. Geguzin, V. I. Solunskii, and A. G. Shakhova. 9, 980 (1967) [9, 1254 (1967)]

SHAKIROV, A.
Analysis of the Hypothesis of Current Rise Due to Injection during Electrical Aging of Titanium-Bearing Dielectrics. (E) S. N. Kotkov, A. N. Tsikin, and A. Shakirov. 9, 2777 (1968) [9, 3527 (1967)]

SHALDIN, Yu. V.
Optical Absorption by SbSI Crystals in the Presence of an Electric Field. (E) Yu. V. Shaldin and V. A. Lyakhovitskaya. 9, 1212 (1967) [9, 1541 (1967)]

SHALIMOVA, K. V.
Effects of CdTe, Te, and Cd Condensation Rates on the Critical Temperatures and Phase Content of Thin Films. (E) K. V. Shalimova and É. N. Voronkov. 9, 1169 (1967) [9, 1497 (1967)]

SHALYT, S. S.
Quantum Oscillations of Transport Coefficients of Mercury Selenide. (E) M. S. Bresler, S. A. Aliev, and S. S. Shalyt. 9, 2159 (1968) [9, 2746 (1967)]

SHAKMANOV, V. V.
Dielectric Films Produced by Reactive Sputtering. (E) Yu. A. Prokhorov, V. V. Shakmanov, L. B. Shelyakin, and V. E. Yurasova. 9, 1091 (1967) [9, 1398 (1967)]

SHAMRAEV, V. N.
Spatial Dispersion Effects in Gyrotropic Crystals. (E/T) V. A. Kizel', Yu. I. Krasilov, and V. N. Shamraev. 9, 571 (1967) [9, 728 (1967)]

SHAMUKOV, N. A.
Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Aver'yanov. 9, 1899 (1968) [9, 2426 (1967)]

SHANINA, B. D.
Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Maevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 963 (1967)]

SHAPIRO, R. Kh.
Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 9, 1560 (1968) [9, 1983 (1967)]

SHAPIRO, Z. I.
Pyroelectric Effect and Spontaneous Polarization in $LiTaO_3$. (E) M. B. Roitberg, Z. I. Shapiro, and A. Z. Rabinovich. 9, 2843 (1968) [9, 3613 (1967)]

SHAPKIN, V. V.
Determination of the Internal Crystal Field in $BaTiO_3$ Using Paramagnetic Ions and the Particle Size Effect. (E) É. V. Bursian and V. V. Shapkin. 9, 211 (1967) [9, 283 (1967)]

SHARAFUTDINOV, R. F.
A Condensation Method for Direct Observation of Dislocations. (E) V. M. Finkel', R. F. Sharafutdinov, and M. V. Shishkin. 9, 125 (1967) [9, 167 (1967)]

SHASKOL'SKAYA, M. P.
Influence of an Electrostatic Field on the Temperature Dependence of the Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, O. L. Mikhailova, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 531 (1967) [9, 679 (1967)]
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]
Effect of Deformation by Ultrasound on the Photosensitivity of Silver Chloride Crystals. (E) O. P. Golovko, N. A. Tyapunina, and M. P. Shaskol'skaya. 9, 1887 (1968) [9, 2414 (1967)]

SHCHEGOLIKHINA, S. V.
Modulation of Light Absorption in Germanium at the Boundary with Electrolytes. (E) P. P. Konorov and S. V. Shchegolikhina. 9, 1661 (1968) [9, 2117 (1967)]

SHCHELOKOV, R. N.
Heating of the Crystal Lattice during Paramagnetic Relaxation in Gadolinium Hexaantipyrinate. (E) V. A. Atsarkin and R. N. Shchelokov. 9, 1766 (1968) [9, 2252 (1967)]

SHCHEMELEV, V. N.
Relationship between the Ranges of Fast and Slow Electrons in Alkali-Halide Compounds. (E) L. G. Eliseenko, V. N. Shchemelev, and M. A. Rumsh. 9, 128 (1967) [9, 171 (1967)]

SHCHETKOV, A. A.
Experimental Investigation of the Influence of an External Field on the EPR Spectrum of Cr^{3+} Ions in Corundum. (E) V. I. Nepsha, Yu. A. Sherstkov, A. D. Gorlov, and A. A. Shchetkov. 9, 1907 (1968) [9, 2433 (1967)]

SHCHEVELEV, M. I.
Spiral Etch Pits in Germanium. (E) Yu. P. Khukhryanskii, M. I. Shchevelev, and B. N. Popovich. 9, 816 (1967) [9, 1042 (1967)]

SHEINKMAN, A. I.
The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

SHEINKMAN, M. K.
Luminescence of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]

Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]

Determination of the Radiative Yield of the Electron Capture by Sensitizing Recombination Centers in CdSe. (E) G. L. Belen'kii, I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2626 (1968) [9, 3337 (1967)]

SHEKUN, L. Ya.

Width of Paramagnetic Resonance Lines Due to Impurity Ions in Scheelite Single Crystals. (E/T) I. N. Kurkin and L. Ya. Shekun. 9, 339 (1967) [9, 444 (1967)]

Trivalent Rare Eearths in Single Crystals of Cerium Dioxide, Erbium and Ytterbium. (E) A. A. Antipin, Z. N. Zona, V. A. Ioffe, A. N. Katyshev, and L. Ya. Shekun. 9, 521 (1967) [9, 671 (1967)]

Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]

Characteristic Features of the Magnetic Properties of Trigonal and Tetragonal Rare-Earth Centers in CaF_2-Type Crystals. (E) L. Ya. Shekun. 9, 742 (1967) [9, 948 (1967)]

Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]

Trivalent Rare Earths in Cerium Dioxide Single Crystals. Dysprosium. (E) Z. N. Zona, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1682 (1968) [9, 2138 (1967)]

Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zona, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]

Spin-Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Kamyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]

SHELEKHIN, Yu. L.

Electron Paramagnetic Resonance of Phthalocyanines of Rare Earth Elements. (E) I. S. Kirin, Yu. L. Shelekhin, and P. N. Moskalev. 9, 1461 (1967) [9, 1852 (1967)]

Exchange Interactions of Cr^{3+} Ions in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 9, 1663 (1968) [9, 2119 (1967)]

SHELIMOVA, L. E.

Low-Temperature Phase Transition in Tin Telluride. (E) S. I. Novikova and L. E. Shelimova. 9, 1046 (1967) [9, 1336 (1967)]

SHELYAKIN, L. B.

Dielectric Films Produced by Reactive Sputtering. (E) Yu. A. Prokhorov, V. V. Shakmanov, L. B. Shelyakin, and V. E. Yurasova. 9, 1091 (1967) [9, 1398 (1967)]

SHERSTKOV, Yu. A.

Experimental Investigation of the Influence of an External Field on the EPR Spectrum of Cr^{3+} Ions in Corundum. (E) V. I. Nepsha, Yu. A. Sherstkov, A. D. Gorlov, and A. A. Shchetkov. 9, 1907 (1968) [9, 2433 (1967)]

SHESTOPALOV, L. M.

Investigation of the Mechanism of Optical Damage of Lithium Fluoride Single Crystals. (E) N. V. Volkova, V. A. Likhachev, M. I. Stepanov, and L. M. Shestopalov. 9, 609 (1967) [9, 778 (1967)]

Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]

SHEVCHENKO, A. K.

Measurement of the Spin-Lattice Relaxation Time in Strong Magnetic Fields. (E) A. K. Shevchenko. 9, 537 (1967) [9, 685 (1967)]

SHEVLYAGIN, K. V.

Time Lag in a Sequence of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, S. S. Starobinets, and K. V. Shevlyagin. 9, 510 (1967) [9, 661 (1967)]

Amplitude and Time Oscillations of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, and K. V. Shevlyagin. 9, 942 (1967) [9, 1209 (1967)]

SHIBANOV, A. S.

Study of the Low-Temperature Specific Heat of Cobalt Chromite. (E) A. S. Shibanov and N. A. Smol'kov. 9, 2910 (1968) [9, 3676 (1967)]

SHILEIKA, A. Yu.

Effect of Hydrostatic Pressure on the Refractive Index of Epitaxial PbS Films. (E) Yu. A. Semenov and A. Yu. Shileika. 9, 1419 (1967) [9, 1810 (1967)]

SHIL'NIKOV, Yu. R.

Effect of Thermodynamic Fluctuations of the Magnetization on the Ferromagnetic Resonance Line Width. (E) Yu. M. Yakovlev and Yu. R. Shil'nikov. 9, 920 (1967) [9, 1178 (1967)]

SHILOVA, M. V.

High-Voltage Photo-emf Effect in Amorphous Films of Sb_2S_3. (E) I. A. Karpovich, M. V. Shilova, and K. A. Akatova. 9, 2377 (1968) [9, 3014 (1967)]

SHISELOV, A. A.

Change in the Lattice Constant of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva, S. A. Smiryagina, and A. A. Shishelov. 9, 1897 (1968) [9, 2424 (1967)]

SHISHKIN, M. V.

A Condensation Method for Direct Observation of Dislocations. (E) V. M. Finkel', R. F. Sharafutdinov, and M. V. Shishkin. 9, 125 (1967) [9, 167 (1967)]

SHKLOVSKII, B. I.

Absorption of High-Frequency Longitudinal Sound in Solids at Low Temperatures. L. É. Gurevich and B. I. Shklovskii. 9, 401 (1967) [9, 526 (1967)]

Absorption of Hypersound in Ferrodielectrics at Low Temperatures. (T) B. I. Shklovskii. 9, 1512 (1968) [9, 1917 (1967)]

Effect of an External Electric Field on the Absorption of Sound in a Dielectric. (T) I. V. Ioffe and B. I. Shklovskii. 9, 1660 (1968) [9, 2116 (1967)]

Dependence of the Intensity of Stimulated Mandel'shtam-Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Ryaskov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]

Ultrasonic Absorption in Antiferromagnets. (T) G. A. Roman and B. I. Shklovskii. 9, 2196 (1968) [9, 2794 (1967)]

SHKLYAREVSKII, I. N.

Investigation of the Kinetics of Growth of an Oxide Film on the Surface of Indium. (E) L. A. Agoev and I. N. Shklyarevskii. 9, 2324 (1968) [9, 2958 (1967)]

SHLIMAK, I. S.

Influence of Uniaxial Compression on the Interimpurity Radiative Recombination in Germanium. (E) V. P. Dobrego, S. M. Ryvkin, and I. S. Shlimak. 9, 1131 (1967) [9, 1451 (1967)]

SHMELEV, G. M.

Scattering of Polarons by Acoustic Lattice Vibrations. (T) G. M. Shmelev. 9, 371 (1967) [9, 488 (1967)]

SHMURAK, S. Z.

Luminescence of X-Ray Irradiated KCl - Cu Crystals Caused by Small Deformations. (E) S. Z. Shmurak and M. B. Éliashberg. 9, 1427 (1967) [9, 1818 (1967)]

SHPAK, M. T.

"Isostructural" Phase Transition in Naphthalene Crystals under the Action of Deformation. (E) V. A. Lisovenko and M. T. Shpak. 9, 271 (1967) [9, 356 (1967)]

SHPIL'KO, I. A.

Propagation of 10^4 MHz Hypersound Perpendicular to the Optic Axis in $LiNbO_3:Cr^{3+}$ at Room and Helium Temperatures. (E) B. P. Smolyakov, L. M. Meil'man, V. P. Klyuev, I. A. Shpil'ko, and U. Kh. Kopvillem. 9, 2366 (1968) [9, 3002 (1967)]

SHPINEL', V. S.

The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Peryshkin, E. I. Rzhekhina, and V. S. Shpinel'. 9, 1189 (1967) [9, 1519 (1967)]

SHPUNT, A. A.
Microhardness of Deformed NaCl Crystals. (E) A. A. Shpunt and O. A. Nabutovskaya. 9, 387 (1967) [9, 507 (1967)]
Determination of the Modulus of Elasticity of Whiskers by the Method of Flexural Vibrations. (E) A. A. Shpunt. 9, 878 (1967) [9, 1122 (1967)]
SHTIVEL'MAN, K. Ya.
Splitting of the Ground Level of Double Acceptors in Semiconductors. (T) N. S. Baryshev, B. I. Beglov, and K. Ya. Shtivel'man. 9, 1463 (1967) [9, 1854 (1967)]
SHTOL'TS, E. V.
Influence of Thermomagnetic Treatment on the Processes of Magnetization of Cobalt Ferrite Powders. (E) Ya. S. Shur, O. A. Ivanov, and E. V. Shtol'ts. 9, 30 (1967) [9, 42 (1967)]
Characteristics of the Process of Magnetization Reversal and the Nature of Coercive Force of Cobalt Ferrite Powders. (E) O. A. Ivanov, Ya. S. Shur, and E. V. Shtol'ts. 9, 857 (1967) [9, 1098 (1967)]
SHTRAKHMAN, K. M.
Zener Relaxation Effect in Cu–Zn–Al Ternary Alloys. (E) K. M. Shtrakhman. 9, 1360 (1967) [9, 1732 (1967)]
Determination of the Size of Regions of Concentration Inhomogeneity in Certain Single-Phase Silver-Base Alloys from Measurements of the Zener Relaxation. (E) K. M. Shtrakhman and Yu. V. Piguzov. 9, 2034 (1968) [9, 2586 (1967)]
SHUBINA, R. V.
Paraelectric Induction and Echo. (T) R. V. Shubina. 9, 1456 (1967) [9, 1847 (1967)]
SHUL'MAN, A. Ya.
Electrical Fluctuations in a Solid-State Plasma in a Strong Electric Field. (T) Sh. M. Kogan and A. Ya. Shul'man. 9, 1771 (1968) [9, 2259 (1967)]
SHUL'MAN, L. A.
Exchange Pairs of Nitrogen Impurities in Diamond. (E/T) L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko. 9, 1545 (1968) [9, 1964 (1967)]
Moments of EPR Lines in Systems with Dominant Exchange Interaction. (T) S. M. Ryabchenko and L. A. Shul'man. 9, 2595 (1968) [9, 3298 (1967)]
SHUL'PINA, I. L.
X-Ray Diffraction Investigation of Defects Generated in Silicon during Deep Diffusion of Phosphorus. (E) I. L. Shul'pina and Z. K. Kov'ev. 9, 791 (1967) [9, 1008 (1967)]
Investigation of Defects Generated during the Heat Treatment of Oxygen-Bearing Silicon. (E) I. L. Shul'pina, L. V. Lainer, M. G. Mil'vidskii, and E. P. Rashevskaya. 9, 1291 (1967) [9, 1641 (1967)]
SHUMILOV, D. V.
The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]
SHUR, M. S.
Study of the Ferroelectric Transition in $NaNO_2$ Using the Raman Scattering Spectrum in the Region of NO_2^- Anion Vibrations. (E) Z. V. Chisler and M. S. Shur. 9, 796 (1967) [9, 1015 (1967)]
SHUR, Ya. S.
Influence of Thermomagnetic Treatment on the Processes of Magnetization of Cobalt Ferrite Powders. (E) Ya. S. Shur, O. A. Ivanov, and E. V. Shtol'ts. 9, 30 (1967) [9, 42 (1967)]
Characteristics of the Process of Magnetization Reversal and the Nature of Coercive Force of Cobalt Ferrite Powders. (E) O. A. Ivanov, Ya. S. Shur, and E. V. Shtol'ts. 9, 857 (1967) [9, 1098 (1967)]
SHUTILOV, V. A.
Ultrasonic Excitation of Magnetic Dipole Transitions of F^{19} Nuclei in LiF Single Crystals. (E) V. A. Shutilov and G. L. Antokol'skii. 9, 958 (1967) [9, 1231 (1967)]
SHVEDCHIKOV, A. V.
Study of Nuclear γ-Resonance after α-Decay. (E) G. N. Belozerskii, Yu. A. Nemilov, A. A. Chalkborskii, and A. V. Shvedchikov. 9, 978 (1967) [9, 1252 (1967)]
SHVETS, A. E.
Influence of a Magnetic Field on the Thermal Conductivity of a Ferrodielectric at Low Temperatures. (T) V. N. Kashcheev and A. E. Shvets. 9, 1640 (1968) [9, 2091 (1967)]
SIDOROV, T. A.
Mössbauer Effect in Glasses Containing Tin. (E) K. P. Mitrofanov and T. A. Sidorov. 9, 693 (1967) [9, 890 (1967)]
SIDOROVA, T. A.
Crystallization of Levitating Metals. (E) A. A. Fogel', T. A. Sidorova, Z. A. Guts, and M. M. Mezdrogina. 9, 2636 (1968) [9, 3346 (1967)]
SIDLYARENKO, B. I.
Microspectrometric Investigation of the Thermal Stability of F Color Centers in NaCl, KCl, and KBr Crystals. (E) F. N. Zaitov and B. I. Sidlyarenko. 9, 2189 (1968) [9, 2785 (1967)]
SILVESTROVA, T. V.
Creep of Solid Ammonia. (E) A. I. Prokhvatilov, T. V. Sil'vestrova, and D. N. Bol'shutkin. 9, 546 (1967) [9, 693 (1967)]
SIMEONOV, S. S.
Motion of Liquid-Lithium Inclusions in LiF Single Crystals in an External Electric Field. (T/E) Ya. E. Geguzin, S. S. Simeonov, and É. A. Živazov. 9, 1123 (1967) [9, 1440 (1967)]
SIMONOVA, M. I.
Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]
Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]
SINII, I. G.
Infrared Absorption Spectrum of the Antiferromagnets $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova, I. G. Sinii, R. V. Pisarev, and P. P. Syrnikov. 9, 15 (1967) [9, 21 (1967)]
Rotation of the Plane of Polarization of Light and Magnetic Circular Dichroism in Ferrimagnetic $RbNiF_3$. (E) R. V. Pisarev, I. G. Sinii, and G. A. Smolenskii. 9, 2482 (1968) [9, 3149 (1967)]
SINYAVSKII, É. P.
A Quasiclassical Estimate of the Cross Section for Multiphonon Trapping in the Non-Condon Approximation for the Deformation Interaction. (T) É. P. Sinyavskii and V. A. Kovarskii. 9, 1142 (1967) [9, 1464 (1967)]
SINYUTINA, G. B.
Influence of Uniform Pressure and of Temperature on the Characteristics of p–n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]
SITNIKOVA, A. A.
Structural Changes in an Aluminum–Germanium Solid Solution at the Stage of Decomposition Corresponding to Maximum Hardness. (E) L. M. Sorokin and A. A. Sitnikova. 9, 1525 (1968) [9, 1935 (1967)]
SKORNYAKOV, G. P.
Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2064 (1968) [9, 2625 (1967)]
SKREBNEV, V. A.
Effect of the Exchange Interaction on Spin-Lattice Relaxation in Paramagnetic Ionic Crystals. (T) S. A. Al'tshuler and V. A. Skrebnev. 9, 379 (1967) [9, 498 (1967)]
SKRIPAK, V. N.
Phonon Scattering by Distorted Lattices of Ionic Crystals Containing Nonstoichiometric Vacancies. (E/T) I. I. Vishnevskii and V. N. Skripak. 9, 2129 (1968) [9, 2713 (1967)]
Influence of Anion Vacancies on the Lattice Thermal Conductivity of Coordination Crystals Having the Spinel Structure at Low Temperature. (E) I. I. Vishnevskii and V. N. Skripak. 9, 2865 (1968) [9, 3633 (1967)]

SLEZOV, V. V.
Effect of Irradiation on the Diffusional-Dislocational Flow of Crystals. (T) A. M. Kosevich, Z. K. Seralidze, and V. V. Slezov. 9, 697 (1967) [9, 895 (1967)]
Coalescence of a Supersaturated Solid Solution during Diffusion along Grain Boundaries or Dislocation Lines. (T) V. V. Slezov. 9, 927 (1967) [9, 1187 (1967)]
Coalescence of a System of Dislocation Loops and Pores in Materials Subjected to Irradiation. (T) V. V. Slezov. 9, 2720 (1968) [9, 3448 (1967)]

SLUTSKER, A. I.
Rotational Mobility of Crystallites in Oriented Kapron (Polycaprolactam). (E) V. S. Kuksenko, S. Nizamidinov, and A. I. Slutsker. 9, 1569 (1968) [9, 1996 (1967)]
Formation of Submicroscopic Cracks in Loaded Oriented Amorphous-Crystalline Polymers. (E) V. S. Kuksenko, A. I. Slutsker, and A. A. Yastrebinskii. 9, 1869 (1968) [9, 2390 (1967)]

SLUTSKIN, A. A.
Theory of Interband Magnetic Breakdown in Metals. (T) A. A. Slutskin and A. M. Kadigrobov. 9, 138 (1967) [9, 184 (1967)]

SMELYANSKAYA, É. N.
Nature of Microwave Dielectric Losses in Glasses. (E) M. D. Mashkovich and É. N. Smelyanskaya. 9, 974 (1967) [9, 1249 (1967)]

SMIRNOV, A. I.
Splitting of the Energy Levels of the Er^{3+} Ion in the Crystal Field of Strontium Molybdate. (E) Yu. A. Bobrovnikov, G. M. Zverev, and A. I. Smirnov. 9, 1403 (1967) [9, 1794 (1967)]
Crystal Field Parameters of Trigonal Er^{3+} Centers in CaF_2 Crystals. (E/T) G. M. Zverev and A. I. Smirnov. 9, 1586 (1968) [9, 2019 (1967)]
EPR of Ground and Excited States of Er^{3+} Ions in Calcium and Strontium Molybdate Crystals. (E) G. M. Zverev, L. V. Makarenko, and A. I. Smirnov. 9, 2383 (1968) [9, 3051 (1967)]

SMIRNOV, B. I.
Mean Free Path of Dislocations during the Formation of Slip Bands in LiF Crystals. (E) B. I. Smirnov. 9, 319 (1967) [9, 417 (1967)]
Dislocation Structure of LiF Crystals Deformed under Constant Stresses. (E/T) B. I. Smirnov and A. V. Boresnko. 9, 1377 (1967) [9, 1755 (1967)]

SMIRNOV, I. A.
Thermal Conductivity of Amorphous Bodies, As Illustrated by Porcelain. (E) E. V. Shadrichev, I. A. Smirnov, and V. V. Tikhonov. 9, 1909 (1968) [9, 2435 (1967)]
Thermal Conductivity of Additively Colored KCl Crystals. (E) D. N. Mirlin and I. A. Smirnov. 9, 1452 (1967) [9, 1843 (1967)]
Thermal Conductivity of NaF Single Crystals Containing K, Li, and Cl Impurities. (E) I. A. Smirnov. 9, 1454 (1967) [9, 1845 (1967)]
Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]
Effect of Interband Interaction of Light and Heavy Holes on the Lorenz Number in Doped p-PbTe Single Crystals in the High- and Low-Temperature Regions. (E) M. N. Vinogradova, N. V. Kolomoets, I. A. Smirnov, and L. M. Sysoeva. 9, 2368 (1968) [9, 3004 (1967)]

SMIRNOV, L. A.
Penetration of Electrons with Moderate Energies into a Solid. (T/E) L. A. Smirnov and M. A. Rumsh. 9, 2653 (1968) [9, 3361 (1967)]

SMIRNOV, L. S.
Bombardment of Thin CdTe Films with Indium Ions. (E) G. A. Kachurin, A. E. Gorodetskii, Yu. V. Loburets, and L. S. Smirnov. 9, 375 (1967) [9, 494 (1967)]
Irradiation of Thin Layers of CdTe by Cadmium Ions. (E) L. S. Smirnov, G. A. Kachurin, and A. E. Gorodetskii. 9, 564 (1967) [9, 719 (1967)]
Interaction between Radiations Defects and Dislocations in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 9, 1603 (1968) [9, 2043 (1967)]
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3665 (1967)]

SMIRNOVA, T. V.
Piezomagnetoresistance of n-Type Ge for a Mixed Scattering Mechanism. (E) A. L. Lipin, V. S. L'vov, and T. V. Smirnova. 9, 2628 (1968) [9, 3339 (1967)]

SMIRYAGINA, S. A.
Change in the Lattice Constant of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva, S. A. Smiryagina, and A. A. Shishelov. 9, 1897 (1968) [9, 2424 (1967)]

SMOKOTIN, É. M.
Temperature Dependence of the Magnetostriction Constants of Single-Crystals of Yttrium-Gallium Ferrites Measured by the Microwave Method. (E/T) G. A. Petrakovskii, É. M. Smokotin, and A. G. Titova. 9, 1820 (1968) [9, 2324 (1967)]

SMOLENSKII, G. A.
Rotation of the Plane of Polarization of Light and Magnetic Circular Dichroism in Ferrimagnetic $RbNiF_3$. (E) R. V. Pisarev, I. G. Sinii, and G. A. Smolenskii. 9, 2482 (1968) [9, 3149 (1967)]

SMOLIN, M. D.
Temperature Dependence of the Ionic Charge Transport in Pure Silver. (E/T) M. D. Smolin. 9, 1415 (1967) [9, 1807 (1967)]

SMOL'KOV, N. A.
Study of the Low-Temperature Specific Heat of Cobalt Chromite. (E) A. S. Shibanov and N. A. Smol'kov. 9, 2910 (1968) [9, 3676 (1967)]

SMOLYAKOV, B. P.
Propagation of 10^4 MHz Hypersound Perpendicular to the Optic Axis in $LiNbO_3:Cr^{3+}$ at Room and Helium Temperatures. (E) B. P. Smolyakov, L. M. Meil'man, V. P. Klyuev, I. A. Shpil'ko, and U. Kh. Kopvillem. 9, 2366 (1968) [9, 3003 (1967)]
EPR Line Shape and Acoustic Magnetic Resonance of Cr^{3+} in Al_2O_3 in the Presence of an Electric Field. (T) U. Kh. Kopvillem and B. P. Smolyakov. 9, 2664 (1968) [9, 3375 (1967)]

SMUSHKOV, I. V.
Effect of Heat Treatment on the Structural Perfection of NaCl(Pb) Single Crystals Grown from Solution. (E) T. V. Kuskova, E. I. Raikhel's, I. V. Smushkov, and T. V. Tyutyunnikova. 9, 718 (1967) [9, 926 (1967)]
Change in Substructure of Lithium Fluoride Single Crystals during Isothermal Annealing. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 9, 1176 (1967) [9, 1505 (1967)]
Some Properties of the Structure of a Surface Layer on Lithium Fluoride Crystals after Annealing. (E) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 9, 2379 (1968) [9, 3016 (1967)]

SMYSLOV, I. I.
Calculation of Tensor Quantities on Electronic Digital Computers. (T) I. I. Smyslov. 9, 820 (1967) [9, 1047 (1967)]

SOBOLEV, E. V.
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3665 (1967)]

SOBOLEVSKAYA, S. V.
EPR of Colloidal Lithium in Neutron-Irradiated LiF Crystals. (E) L. I. Dzhordzhishvili, T. L. Kaisbegishvili, N. G. Politov, and S. V. Sobolevskaya. 9, 2348 (1968) [9, 2986 (1967)]

SOCHAVA, L. S.
Electron Paramagnetic Resonance of Partially Reduced Rutile. (E) V. N. Bogomolov and L. S. Sochava. 9, 2647 (1968) [9, 3355 (1967)]

SOIFER, Ya. M.
Influence of an Electrostatic Field on the Temperature Dependence of the Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, O. L. Mikhailova, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 531 (1967) [9, 679 (1967)]
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]

SOKLAKOV, A. I.
Reversible Structural Transitions in Glassy SiO_2 at Elevated Temperatures. (E) A. I. Soklakov and V. V. Nechaeva. 9, 715 (1967) [9, 921 (1967)]
SOKOLIK, I. A.
Photoconductivity and Recombination of Triplet Excitons in Anthracene. (E) E. L. Frankevich and I. A. Sokolik. 9, 1532 (1968) [9, 1945 (1967)]
Production of Current Carriers from Excitons by Charge Transfer in Anthracene. (T/E) E. L. Frankevich and I. A. Sokolik. 9, 2715 (1968) [9, 3441 (1967)]
SOKOLOV, V. M.
Ferromagnetic Resonance in Thin Ferromagnetic Films. (T) V. M. Sokolov. 9, 3649 (1968) [9, 3357 (1967)]
SOKOL'SKAYA, I. L.
Investigation of the Field Emission of Electrons from Germanium. (E) V. G. Ivanov, G. N. Furaei, and I. L. Sokol'skaya. 9, 895 (1967) [9, 1144 (1967)]
SOLODOV, V. P.
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Pilipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]
SOLOSHENKO, I. I.
Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 2573 (1968) [9, 3270 (1967)]
SOLOV'EV, S. P.
Effect of Electron and γ Irradiation on VK-2 and VK-4 Type "Variconds." (E) I. I. Kuz'min, S. P. Solov'ev, T. N. Verbitskaya, and V. A. Kharchenko. 9, 713 (1967) [9, 918 (1967)]
SOLOV'EV, V. A.
Calculation of the Rate of Pore Growth at Grain Boundaries under the Action of Tensile Stresses. (T) B. Ya. Lyubov and V. A. Solov'ev. 9, 2675 (1968) [9, 3388 (1967)]
SOLUNSKII, V. I.
Motion of Na^+ in a Diffusion Zone of the NaCl–NaBr System. (E) Ya. E. Geguzin, V. I. Solunskii, and A. G. Shakhova. 9, 980 (1967) [9, 1254 (1967)]
SOMENKOV, V. A.
A Lattice-Dynamical Investigation of the Hydrides CeH_2, CeH_3, ThH_2, and $UH_{2.7}$ Using Inelastic Scattering of Cold Neutrons. (E) I. Karimov, M. G. Zemlyanov, M. E. Kost, V. A. Somenkov, and N. A. Chernoplekov. 9, 1388 (1967) [9, 1740 (1967)]
Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1588 (1968) [9, 1991 (1967)]
SONIN, A. S.
Electrooptical and Elastooptical Properties of Alkali Metal Dihydrogen Arsenates. (E) A. S. Vasilevskaya, A. S. Sonin, and I. S. Rez. 9, 986 (1967) [9, 1260 (1967)]
Nonlinear Optical Properties of Triglycine Sulfate Single Crystals. (E) A. S. Sonin and V. S. Suvorov. 9, 1437 (1967) [9, 1829 (1967)]
Electrooptical Properties of Triglycine Sulfate. (E) A. S. Sonin and A. S. Vasilevskaya. 9, 1536 (1968) [9, 1951 (1967)]
Specific Heat and Permittivity of a Potassium Dideuterophosphate Crystal in the Vicinity of the Ferroelectric Curie Point. (E) B. A. Strukov, M. Amin, and A. S. Sonin. 9, 1894 (1968) [9, 2421 (1967)]
Space Symmetry and Induced Polarization. (T) A. S. Sonin. 9, 2371 (1968) [9, 3008 (1967)]
Spontaneous Electrooptical Effect in Crystals of Lithium Niobate. (E) A. S. Sonin and L. G. Lomova. 9, 2607 (1968) [9, 3315 (1967)]
SOROKIN, L. M.
Diffraction Contrast from γ-Phase Precipitates Formed in the Late Stages of Decomposition of the Solid Solution Cu–2% Be. (E) L. M. Sorokin. 9, 1353 (1967) [9, 1723 (1967)]
Structural Changes in an Aluminum–Germanium Solid Solution at the Stage of Decomposition Corresponding to Maximum Hardness. (E) L. M. Sorokin and A. A. Sitnikova. 9, 1525 (1968) [9, 1935 (1967)]
STAFEEV, A. V.
Electron Paramagnetic Resonance of Cr^{3+} in $LaAlO_3$ Single Crystals. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 9, 2871 (1968) [9, 3639 (1967)]
STAMENKOVICH, S. S.
Slow Neutron Scattering by Spin Waves Excited by Ferromagnetic Resonance. (T) S. V. Maleev and S. S. Stamenkovich. 9, 575 (1967) [9, 733 (1967)]
STANKOVSKII, B. A.
Effect of Traps on the Amplification of Ultrasound in Cadmium Sulfide. (E) S. G. Kalashnikov, A. I. Morozov, and B. A. Stankovskii. 9, 670 (1967) [9, 859 (1967)]
STAROBINETS, S. S.
Time Lag in a Sequence of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, S. S. Starobinets, and K. V. Shevlyagin. 9, 510 (1967) [9, 661 (1967)]
STARODUBTSEV, S. V.
Radiation-Stimulated Diffusion in Cadmium Sulfide. (E) S. V. Starodubtsev, O. R. Niyazova, and M. A. Kaneev. 9, 679 (1967) [9, 872 (1967)]
STAROVOITOV, A. T.
Measurement of the Magnetic Moment of $BiFeO_3$ in Pulsed Magnetic Fields up to 150 kOe. (E) A. T. Starovoitov. 9, 1201 (1967) [9, 1530 (1967)]
Study of the Magnetic Properties of a System of $BiMnO_3$–$CaMnO_3$ Solid Solutions in a Pulsed Magnetic Field of 160 kOe. (E) A. T. Starovoitov. 9, 2472 (1968) [9, 3136 (1967)]
Reversal of Magnetic Sublattices in Yttrium Orthoferrite. (E) A. T. Starovoitov and V. A. Bokov. 9, 2869 (1968) [9, 3637 (1967)]
STARTSEV, V. I.
Investigation of Some Dynamic Characteristics of Dislocations in Potassium Bromide Crystals by the Internal Friction Method. (E) V. Ya. Platkov, V. P. Efimenko, and V. I. Startsev. 9, 2200 (1968) [9, 2799 (1967)]
STEFANOVICH, A. E.
The Pinch Effect and Current Breakdown in Electron-Hole Plasma. (T) A. E. Stefanovich. 9, 1598 (1968) [9, 2035 (1967)]
STEKHANOV, A. I.
Emergence of Local Vibrations of Additive Molecular Ions in the Infrared Absorption Spectra of Alkali Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2037 (1968) [9, 2590 (1967)]
Temperature Dependence of the Intensity of Local Vibrations of OH Ions in Infrared Absorption Spectra of Alkali-Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2900 (1968) [9, 3668 (1967)]
STEL'MASHENKO, M. A.
Temperature Variation of the First Magnetic Anisotropy Constant in Lithium–Cobalt Ferrites. (E/T) M. A. Stel'mashenko. 9, 1137 (1967) [9, 1458 (1967)]
STEPANOV, A. V.
Dislocation Structure of Deformation Rosettes Obtained on Sodium Chloride Single Crystals at T = 4.2°K. (E) O. V. Klyavin, A. V. Stepanov, and I. S. Kotousova. 9, 1283 (1967) [9, 1631 (1967)]
Optical Determination of the Elastic Limit of Sodium Chloride Single Crystals in the Liquid-Helium Temperature Range. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 1720 (1968) [9, 2190 (1967)]
Optical Elastic Limit of Lithium Fluoride Single Crystals in the Temperature Range 300–1.4°K. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 2008 (1968) [9, 2549 (1967)]
Production of Tubes from Germanium. (E) Yu. I. Koptev and A. V. Stepanov. 9, 2370 (1968) [9, 3007 (1967)]
STEPANOV, G. I.
Fluctuation Levels in the Glassy Semiconductor $Tl_2Se \cdot As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. 9, 19 (1967) [9, 27 (1967)]

STEPANOV, M. I.
Investigation of the Mechanism of Optical Damage of Lithium Fluoride Single Crystals. (E) N. V. Volkova, V. A. Likhachev, M. I. Stepanov, and L. M. Shestopalov. 9, 609 (1967) [9, 778 (1967)]
Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]

STEPANOV, V. G.
Electron Paramagnetic Resonance of Vanadium and Chromium in CaF_2. (E/T) M.M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 155 (1967) [9, 209 (1967)]
Electron Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) R. Yu. Abdulsabirov, V. M. Vinokurov, M. M. Zaripov, and V. G. Stepanov. 9, 541 (1967) [9, 689 (1967)]
Magnitude of the Initial Splittings of Gadolinium Ions in Crystals of the Scheelite Series. (E/T) V. M. Vinokurov and V. G. Stepanov. 9, 844 (1967) [9, 1081 (1967)]
Detection of Ti^{2+} Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 992 (1967) [9, 1265 (1967)]
EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]
Detection of V^{2+} in SrF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2346 (1968) [9, 2984 (1967)]
EPR of Copper and Titanium Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2347 (1968) [9, 2985 (1967)]

STERKHOV, V. A.
Self-Diffusion of Germanium along "Intrinsic" Dislocations in an External Electric Field. (E) V. A. Sterkhov and P. V. Pavlov. 9, 495 (1967) [9, 643 (1967)]
Diffusion and Electrotransport of Indium and Silver along Dislocations in Silicon. (E) V. A. Sterkhov, V. A. Panteleev, and P. V. Pavlov. 9, 533 (1967) [9, 681 (1967)]

STETSENKO, Yu. E.
Mechanical Properties of Solid Para-Hydrogen at 4.2°K. (E) D. N. Bol'shutkin, Yu. E. Stetsenko, and Z. N. Linnik. 9, 1952 (1968) [9, 2482 (1967)]

STOLOV, A. L.
Characteristics of Impurity-Center Formation in CdF_2. (E) F. Z. Gil'fanov, L. D. Livanova, and A. L. Stolov. 9, 326 (1967) [9, 427 (1967)]
Effect of Temperature on Gd^{3+} Impurity Centers in SrF_2. (E) F. Z. Gil'fanov, A. Kh. Karataeva, and A. L. Stolov. 9, 2172 (1968) [9, 2756 (1967)]
Symmetry of Centers and Nature of Excited Stark Levels of Gd^{3+} Ion in CaF_2 Crystals. (E) F. Z. Gil'fanov, A. M. Leushin, and A. L. Stolov. 9, 1061 (1967) [9, 1357 (1967)]

STOLYPIN, Yu. E.
Dielectric Polarization and Thermal Expansion of Polarized Ceramic Samples of the $PbTiO_3-PbZrO_3-PbMg_{0.5}W_{0.5}O_3$ System. (E) Yu. E. Stolypin and V. A. Isupov. 9, 2059 (1968) [9, 2619 (1967)]

STRAKHOV, L. P.
Investigation of the Surface of Cadmium Selenide by the EPR Method. (E) Z. Z. Ditina and L. P. Strakhov. 9, 2000 (1968) [9, 2539 (1967)]

STROGANOV, V. I.
Nonlinear Reflection of Light from Thin Silver Films. (E) G. V. Krivoshchekov and V. I. Stroganov. 9, 2856 (1968) [9, 3625 (1967)]

STRUKOV, B. A.
Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Koptsik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]
Absorption of Ultrasound during Phase Transition in Triglycine Sulfate-Type Ferroelectrics. (E) K. A. Minaeva, A. P. Levanyuk, B. A. Strukov, and V. A. Koptsik. 9, 960 (1967) [9, 1220 (1967)]
Change in the Nature of the Phase Transition in Barium Titanate Single Crystals under Hydrostatic Pressure. (E) I. N. Polandov, B. A. Strukov, and V. P. Mylov. 9, 1153 (1967) [9, 1477 (1967)]
Specific Heat and Permittivity of a Potassium Dideuterophosphate Crystal in the Vicinity of the Ferroelectric Curie Point. (E) B. A. Strukov, M. Amin, and A. S. Sonin. 9, 1894 (1968) [9, 2421 (1967)]
Changes in the Dielectric Properties of Triglycine Fluoroberyllate under the Action of Hydrostatic Pressure. (E) V. P. Mylov, I. N. Polandov, and B. A. Strukov. 9, 2375 (1968) [9, 3012 (1967)]

STRUNIN, B. M.
Internal-Stress Distribution for a Random Positioning of Dislocations. (T) B. M. Strunin. 9, 630 (1967) [9, 805 (1967)]

SUBASHIEV, V. K.
Optical Width of the Forbidden Band in PbTe–PbS Solutions. (E) S. Kasimov, A. R. Regel', and V. K. Subashiev. 9, 2885 (1968) [9, 3653 (1967)]

SUKHOVET, K. S.
Specific Heat of Tungsten-Rhenium Alloy VR-20 in the 1600–2900°K Range. (E) K. S. Sukhovet. 9, 2893 (1968) [9, 3660 (1967)]

SUNTSOV, E. V.
Electrical Conductivity of Ca, Sr, and Ba Fluorides Containing TR^{3+} Impurity. (E) T. I. Nikitinskaya, E. V. Suntsov, and M. S. Tyutin. 9, 1656 (1968) [9, 2111 (1967)]

SURIN, V. V.
High-Frequency Oscillations in Polycrystalline Ferrites during Nonlinear Ferromagnetic Resonance. (E) Ya. A. Monosov and V. V. Surin. 9, 970 (1967) [9, 1246 (1967)]

SUVOROV, V. S.
Nonlinear Optical Properties of Triglycine Sulfate Single Crystals. (E) A. S. Sonin and V. S. Suvorov. 9, 1437 (1967) [9, 1829 (1967)]
Second Harmonic Generation in Crystals of RbH_2AsO_4 (RDA) without Birefringence. (E) V. S. Suvorov and A. A. Filimonov. 9, 1674 (1968) [9, 2131 (1967)]

SUZDALEV, I. P.
Mössbauer and X-Ray Investigations of a Finely Divided Fe^+ 12 at.% Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]

SVETLOV, I. L.
Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. (E) S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov. 9, 1488 (1968) [9, 1887 (1967)]

SVIRIDENKOV, É. A.
Mechanism of Damage of Ruby by Laser Radiation. (E) É. A. Sviridenkov. 9, 1917 (1968) [9, 2442 (1967)]

SVIRINA, E. P.
Hall Effect in an Invar Alloy at Low Temperatures. (E) E. P. Svirina and Yu. V. Nemchinov. 9, 553 (1967) [9, 704 (1967)]

SYRKIN, L. N.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Moskin, V. N. Ravich, G. B. Stnyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

SYRNIKOV, P. P.
Infrared Absorption Spectrum of the Antiferromagnets $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova, I. G. Sinii, R. V. Pisarev, and P. P. Syrnikov. 9, 15 (1967) [9, 21 (1967)]

SYSOEVA, L. M.
Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]
Effect of Interband Interaction of Light and Heavy Holes on the Lorentz Number in Doped p-PbTe Single Crystals in the High- and Low-Temperature Regions. (E) M. N. Vinogradova, N. V. Kolomoets, I. A. Smirnov, and L. M. Sysoeva. 9, 2368 (1968) [9, 3004 (1967)]

SZYMSZAK, Z.
Remarks on Meshcheryakov's Paper "The Susceptibility of a Four-Level Paramagnetic System under Step-by-Step Conditions at Saturation." (T) A. Jeleński and Z. Szymszak. 9, 1905 (1968) [9, 2432 (1967)]

TAGANOV, I. N.
Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 2769 (1968) [9, 3516 (1967)]

TARASENKO, V. V.
Parametric Phenomena in Helicoidal Magnetic Structures. (T) M. A. Savchenko and V. V. Tarasenko. 9, 149 (1967) [9, 200 (1967)]
Antiferromagnets in Strong Magnetic Fields. (T/E) M. A. Savchenko and V. V. Tarasenko. 9, 2584 (1968) [9, 3284 (1967)]

TELIYANTS, V. N.
Theoretical Determination of the Stacking-Fault Energy in Non-transition Metals. (T) G. L. Krasko, V. N. Teliyants, R. T. Pozvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]

TEL'KOVSKII, V. G.
Deceleration of slow Hydrogen and Deuterium Ions in a Thin Silver Foil. (E) Yu. V. Gott and V. G. Tel'kovskii. 9, 1741 (1968) [9, 2221 (1967)]

TESLENKO, V. F.
Calculation of the Characteristic Temperature of Organic Crystals from Elastic Constants. (E) K. S. Aleksandrov, V. F. Teslenko, and B. D. Koreshkov. 9, 579 (1967) [9, 739 (1967)]

TETEL'BAUM, D. I.
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]
Investigation of the Distribution of Boron Atoms in Silicon Doped by Ion Bombardment. (E) E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 2874 (1968) [9, 3642 (1967)]

TIKHONENKO, K. A.
Exchange Pairs of Nitrogen Impurities in Diamond. (E/T) L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko. 9, 1545 (1968) [9, 1964 (1967)]

TIKHONOV, V. I.
Probability of Tunneling through an Impurity Level. (T) V. I. Tikhonov. 9, 1364 (1967) [9, 1737 (1967)]

TIKHONOV, V. V.
Thermal Conductivity and Specific Heat of Yttrium-Calcium Garnets. (E) E. D. Devyatkova and V. V. Tikhonov. 9, 604 (1967) [9, 772 (1967)]
Influence of the Multiplet Structure of Sm^{2+} on the Specific Heat of Samarium Monochalcogenides. (E) A. V. Golubkov and V. V. Tikhonov. 9, 750 (1967) [9, 954 (1967)]
Thermal Conductivity of Amorphous Bodies, As Illustrated by Porcelain. (E) E. V. Shadrichev, I. A. Smirnov, and V. V. Tikhonov. 9, 1909 (1968) [9, 2435 (1967)]

TIKHONOVA, E. A.
Basic Equations of the Dynamical Theory of X-Ray Scattering for Imperfect Crystals. (T) E. A. Tikhonova. 9, 394 (1967) [9, 516 (1967)]
Influence of Thermal Oscillations on Electron Scattering in the Dynamical Theory Approximation. (T) L. B. Kvashnina, V. B. Molodkin, and E. A. Tikhonova. 9, 1306 (1967) [9, 1660 (1967)]

TIMAN, B. L.
Formation of Charged Regions in CdS by the Application of an Electric Field. (E) A. S. Gershun and B. L. Timan. 9, 727 (1967) [9, 935 (1967)]
Theory of a Dielectric–Metal Contact. (T) B. L. Timan. 9, 1191 (1967) [9, 1521 (1967)]
Quadrupole Splitting of an NMR Line Caused by Lattice Distortion by Impurity Ions in NaCl-Type Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 9, 2287 (1968) [9, 2909 (1967)]
Conditions for Forming an Acoustoelectric Domain during Amplification of Thermal Noise in Piezoelectric Semiconductors. (T) B. L. Timan. 9, 2908 (1968) [9, 3675 (1967)]
Ultrasonic Relaxation near a Ferroelectric Phase Transition Point of the Second Kind in an Electric Field. (T/E) S. Ya. Gegusina and B. L. Timan. 9, 1702 (1968) [9, 2167 (1967)]

TIMOFEEV, A. N.
Self-Diffusion of Cs^{24} and I^{131} in Single Crystals and Polycrystalline Samples of Cesium Iodide. (E) S. M. Klotsman, I. P. Polikarpova, A. N. Timofeev, and I. Sh. Trakhtenberg. 9, 1956 (1968) [9, 2487 (1967)]

TIMOFEEV, V. B.
Absorption Spectra and Indirect Optical Transitions in BiI_3 Single Crystals. (E) V. I. Vashchenko and V. B. Timofeev. 9, 1242 (1967) [9, 1577 (1967)]

TIMOFEEVA, V. A.
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]

TISHIN, E. A.
Calculation of the Influence of the Substrate Roughness on the Work Function of Evaporated Films. (E) E. A. Tishin and B. M. Tsarev. 9, 2352 (1968) [9, 2990 (1967)]

TITOV, A. I.
Angular Dependence of the Radiation-Induced Conductivity and Secondary Emission Due to Bombardment of a Ge Single Crystal with Electrons. (E) I. A. Abroyan and A. I. Titov. 9, 2860 (1968) [9, 3628 (1967)]

TITOVA, A. G.
Temperature Dependence of the Magnetostriction Constants of Single-Crystals of Yttrium-Gallium Ferrites Measured by the Microwave Method. (E/T) G. A. Petrakovskii, É. M. Smokotin, and A. G. Titova. 9, 1820 (1968) [9, 2324 (1967)]

TOLDIN, V. A.
The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Ellistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

TOLPAROV, Yu. N.
EPR Investigation of Mn^{2+}–S_2^- in Sodium Chloride Crystals. (E) M. I. Kornfel'd and Yu. N. Tolparov. 9, 1607 (1968) [9, 2047 (1967)]

TOLPYGO, K. B.
Microscopic Theory of F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 9, 1 (1967) [9, 3 (1967)]

TOLSTOI, N. A.
Interaction of Excitons in Anthracene. (E) N. A. Tolstoi and A. P. Abramov. 9, 255 (1967) [9, 340 (1967)]
Migration of Excitons in Uranyl Salts. (E) A. P. Abramov, I. N. Abramova, and N. A. Tolstoi. 9, 1516 (1968) [9, 1923 (1967)]
Nonlinear Dependence of the Luminescence of Cuprous Oxide on the Photoexcitation Intensity. (E) N. A. Tolstoi and A. P. Abramov. 9, 2630 (1968) [9, 3340 (1967)]

TOMASHEVSKII, É. E.
EPR Studies of Rupture Points in Mechanically Stressed Polyamide Macromolecules. (E/T) V. A. Zakrevskii, É. E. Tomashevskii, and V. V. Baptizmanskii. 9, 1118 (1967) [9, 1434 (1967)]

TOSHICH, B. S.
Theory of Fourth-Order Nonlinear Optical Effects in the Exciton Region of the Spectrum. (T) B. S. Toshich. 9, 1348 (1967) [9, 1713 (1967)]

TRAKHTENBERG, I. Sh.
Self-Diffusion of Cs^{24} and I^{131} in Single Crystals and Polycrystalline Samples of Cesium Iodide. (E) S. M. Klotsman, I. P. Polikarpova, A. N. Timofeev, and I. Sh. Trakhtenberg. 9, 1956 (1968) [9, 2487 (1967)]

TRAVINA, T. S.
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gersanich, I. I. Groshik, M. I. Ellinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

TREFILOV, V. I.
Relaxation of Stresses in a Silicon Single Crystal. (E) I. V. Gridneva, Yu. V. Mil'man, V. G. Permyakov, and V. I. Trefilov. 9, 417 (1967) [9, 547 (1967)]

TREMBACH, V. M.
Change in Substructure of Lithium Fluoride Single Crystals during Isothermal Annealing. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 9, 1178 (1967) [9, 1505 (1967)]

TRET'YAK, A. I.
Temperature Dependence of Dislocation Mobility in KBr Single Crystals. (E/T) V. B. Parfinskii and A. I. Tret'yak. 9, 1933 (1968) [9, 2457 (1967)]

TRIFONOV, E. D.
Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. (T) E. D. Trifonov, A. S. Troshin, and É. E. Fradkin. 9, 1617 (1968) [9, 2061 (1967)]

Relaxation of Localized Vibrational Excitation in a Crystal. (T) E. D. Trifonov. 9, 2680 (1968) [9, 3395 (1967)]

TROFIMOVA, T. I.
Formation of Excitons by Electrons in Thallium-Doped RbI Single Crystals. (E) Ch. B. Lushchik and T. I. Trofimova. 9, 2156 (1968) [9, 2744 (1967)]

TROITSKII, O. A.
Participation of Focused Collisions Caused by Irradiation in the Deformation of Metal Crystals. (E) O. A. Troitskii. 9, 498 (1967) [9, 647 (1967)]

TROPININ, V. N.
An Operational Definition of Spin Temperature. (T) V. N. Tropinin. 9, 1803 (1968) [9, 2302 (1967)]

TROSHIN, A. S.
Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. (T) E. D. Trifonov, A. S. Troshin, and É. E. Fradkin. 9, 1617 (1968) [9, 2061 (1967)]

TRUKAN, M. K.
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

TRUKHTANOV, V. A.
Magnetic Fields at Tin Nuclei in a Manganese Ferrite. (E) G. V. Novikov, V. A. Trukhtanov, S. I. Yushchuk, and N. A. Grigoryan. 9, 2350 (1968) [9, 2988 (1967)]

TRUSOV, L. I.
Corrections to the Paper "Contribution of Transfer Processes and Intervalley Transitions to Free Electron Absorption in n-Si" by A. M. Vasil'ev and L. I. Trusov. (T) A. M. Vasil'ev and L. I. Trusov. 9, 1236 (1967) [9, 1564 (1967)]

Magnetic Properties of Crystals with Negative Differential Conductivity. (E) L. I. Trusov. 9, 1413 (1967) [9, 1805 (1967)]

TSAL', N. A.
Coalescence of F Centers in Photochemically Colored NaCl and KCl Crystals Containing Anion Impurities. (E) N. A. Tsal', M. V. Pashkovskii, and R. I. Didyk. 9, 175 (1967) [9, 237 (1967)]

TSARAPAEVA, E. I.
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. S. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashtakov, and E. I. Tsarapaeva. 9, 657 (1967) [9, 842 (1967)]

TSARENKOV, B. V.
Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Stayutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

TSARENKOV, G. V.
Conditions for the Existence of Slow and Fast Recombination Waves in Semiconductors. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 9, 1381 (1967) [9, 1761 (1967)]

TSAREV, B. M.
Field-Emission Study of the Adsorption of Sodium on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 1519 (1968) [9, 1927 (1967)]

Adsorption and Electron Emission of Molybdenum Films on a Tungsten Single Crystal. (E) V. A. Kuznetsov and B. M. Tsarev. 9, 1987 (1968) [9, 2524 (1967)]

Calculation of the Influence of the Substrate Roughness on the Work Function of Evaporated Films. (E) E. A. Tishin and B. M. Tsarev. 9, 2352 (1968) [9, 2990 (1967)]

Field Emission of Lithium Films on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 2766 (1968) [9, 3512 (1967)]

Treatment of the Energy Loss in the Electrostatic Model of Adsorption of a Film. (T) V. A. Kuznetsov, A. P. Ovchinnikov, and B. M. Tsarev. 9, 2881 (1968) [9, 3649 (1967)]

TSIDIL'KOVSKII, I. M.
Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2084 (1968) [9, 2625 (1967)]

TSIKIN, A. N.
Vacancy Concentration Variation in KBr Crystals during Electrolytic Coloration. (E) G. A. Andreev, G. B. Semushkin, and A. N. Tsikin. 9, 2564 (1968) [9, 3257 (1967)]

Analysis of the Hypothesis of Current Rise Due to Injection during Electrical Aging of Titanium-Bearing Dielectrics. (E) S. N. Kotkov, A. N. Tsikin, and A. Shakirov. 9, 2777 (1968) [9, 3527 (1967)]

TSINTSADZE, G. A.
EPR Spectrum of Mn^{2+} in $ZnWO_4$. (E) A. A. Galkin, G. N. Neilo, and G. A. Tsintsadze. 9, 275 (1967) [9, 359 (1967)]

TSIRUL'NIK, P. A.
Influence of Oxygen Impurity on the Conductivity of Lithium Fluoride. (E) Yu. B. Vladimirskii, T. I. Nikitinskaya, and P. A. Tsirul'nik. 9, 1666 (1968) [9, 2122 (1967)]

TSKHAKAYA, D. D.
Theory of Transport Phenomena in Conductors in a Strong Magnetic Field. (T) S. V. Peletminskii and D. D. Tskhakaya. 9, 619 (1967) [9, 790 (1967)]

TS'UNG-HSING, T. Yü.
A New Method for the Electrical Decoration of the Surface of Solids. (E) G. I. Distler, T. Yü Ts'ung-hsing, and E. M. Aleksandrova. 9, 2364 (1968) [9, 3000 (1967)]

TSYKALOV, V. G.
Investigation of Antiferroelectrics at Millimeter Wavelengths. (E) Yu. M. Poplavko and V. G. Tsykalov. 9, 2600 (1968) [9, 3305 (1967)]

TUMANOV, V. S.
Magnon-Phonon Interaction in Cubic Crystals. (T) V. S. Tumanov. 9, 1854 (1968) [9, 2369 (1967)]

TURKEVICH, É. I.
Neutron Diffraction Study of Atomic and Magnetic Structures of Calcium–Vanadium–Ferrite Garnet. (E) V. P. Plakhtii, G. P. Gordeev, A. A. Kuzina, and É. I. Turkevich. 9, 1762 (1968) [9, 2247 (1967)]

TUROV, E. A.
The Mechanisms of the Interaction of Nuclear Spins with the Lattice in Ferro- and Antiferromagnets. (T) E. A. Turov. 9, 1234 (1967) [9, 1562 (1967)]

TYAPUNINA, N. A.
Effect of Deformation by Ultrasound on the Photosensitivity of Silver Chloride Crystals. (E) O. P. Golovko, N. A. Tyapunina, and M. P. Shaskol'skaya. 9, 1887 (1968) [9, 2414 (1967)]

TYUTIN, M. S.
Conductivity of Pure Calcium, Strontium, and Barium Fluorides. (E) V. A. Arkhangel'skaya, B. G. Mikheev, T. I. Nikitinskaya, and M. S. Tyutin. 9, 539 (1967) [9, 687 (1967)]

Electrical Conductivity of Ca, Sr, and Ba Fluorides Containing TR^{3+} Impurity. (E) T. I. Nikitinskaya, E. V. Suntsov, and M. S. Tyutin. 9, 1656 (1968) [9, 2111 (1967)]

TYUTNEVA, G. K.
Faraday Effect Mechanisms in Ferrimagnets. (E) M. V. Chetkin, I. G. Morozova, and G. K. Tyutneva. 9, 2852 (1968) [9, 3621 (1967)]

TYUTYUNNIKOVA, T. V.
Effect of Heat Treatment on the Structural Perfection of NaCl(Pb) Single Crystals Grown from Solution. (E) T. V. Kuskova, E. I. Raikhel's, I. V. Smushkov, and T. V. Tyutyunnikova. 9, 718 (1967) [9, 936 (1967)]

UCHASTKIN, V. I.
Resonance Absorption of Sound Waves in Iron Garnet Single Crystals. (E/T) K. V. Goncharov, V. A. Krasil'nikov, and V. I. Uchastkin. 9, 2671 (1968) [9, 3384 (1967)]

ULMANIS, U. A.
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lebed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]

UMAROVA, F. T.
Radiation-Stimulated Migration Processes in Solids. (T) A. E. Kiv and F. T. Umarova. 9, 1745 (1968) [9, 2225 (1967)]

URSULYAK, N. D.
Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ursulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]

URUSHADZE, G. I.
Electron Tunneling in Superconductors. (T) G. I. Urushadze. 9, 930 (1967) [9, 1192 (1967)]
Modulation of the Tunneling Current by Sound Waves in a Superconductor. (T) G. I. Urushadze. 9, 1208 (1967) [9, 1536 (1967)]

UROSOVSKAYA, A. A.
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Ershov. 9, 854 (1967) [9, 1093 (1967)]

UTEVSKII, L. M.
Formation of Dislocation Structure during Deformation of Silicon-Iron Single Crystals. (E) V. G. Kurdyumov, L. M. Morgulis, and L. M. Utevskii. 9, 519 (1967) [9, 669 (1967)]

UTKIN, N. I.
Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ursulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]

VAINSHTEIN, É. E.
Study of X-Ray K Spectra of Titanium in Its Nitride and Carbide. (E) V. I. Chirkov, S. M. Blokhin, and É. E. Vainshtein. 9, 873 (1967) [9, 1116 (1967)]

VAKHONIN, V. V.
Transfer of Plastic Deformation through Intergranular Boundaries in NaCl Bicrystals. (E) V. M. Fineki', Z. A. Maslovskaya, and V. V. Vakhonin. 9, 945 (1967) [9, 1213 (1967)]

VAKULENKO, O. V.
Absorption of Infrared Radiation by Free Carriers in n-Type GaAs. (E) O. V. Vakulenko and M. P. Lisitsa. 9, 769 (1967) [9, 979 (1967)]

VANNIKOV, A. V.
Mobility of Holes in Films of Organic Polymer Semiconductors. (E) A. V. Vannikov. 9, 1068 (1967) [9, 1367 (1967)]
Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Askin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]

VARFALOMEEV, A. V.
Magnetooptical Oscillations of Absorption in Germanium Crystals Free of Mechanical Stresses. (E) A. V. Varfalomeev, B. P. Zakharchenya, and R. P. Seisyan. 9, 847 (1967) [9, 1085 (1967)]

VASHCHENKO, V. I.
Absorption Spectra and Indirect Optical Transitions in BiI$_3$ Single Crystals. (E) V. I. Vashchenko and V. B. Timofeev. 9, 1242 (1967) [9, 1577 (1967)]

VASIL'EV, A. M.
Correction to the Paper "Contribution of Transfer Processes and Intervalley Transitions to Free Electron Absorption in n-Si" by A. M. Vasil'ev and L. I. Trusov. (T) A. M. Vasil'ev and L. I. Trusov. 9, 1236 (1967) [9, 1564 (1967)]

VASIL'EV, B. P.
Amplification of High-Intensity Ultrasound in Cadmium Sulfide Single Crystals. (E) B. P. Vasil'ev and K. N. Vinogradov. 9, 1052 (1967) [9, 1345 (1967)]

VASIL'EV, V. K.
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]

VASILEVSKAYA, A. S.
Electrooptical and Elastooptical Properties of Alkali Metal Dihydrogen Arsenates. (E) A. S. Vasilevskaya, A. S. Sonin, and I. S. Rez. 9, 986 (1967) [9, 1260 (1967)]
Electrooptical Properties of Triglycine Sulfate. (E) A. S. Sonin and A. S. Vasilevskaya. 9, 1536 (1968) [9, 1951 (1967)]

VATULEV, V. N.
Influence of Impurities on Polymorphic Transitions in Octahydroanthracene Crystals. (E) V. N. Vatulev and A. F. Prikhot'ko. 9, 2739 (1968) [9, 3475 (1967)]

VAVILOV, V. S.
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. S. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashkatov, and E. I. Tsarapaeva. 9, 857 (1967) [9, 842 (1967)]
Carrier Density in a Semiconductor Illuminated with a Laser. (E) L. M. Blinov, V. S. Vavilov, and G. N. Galkin. 9, 666 (1967) [9, 854 (1967)]
Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]

VECHKO, I. N.
Electrical Conductivity and Thermoelectric Power of Molten Ag$_2$S Containing Excess Sulfur. (E) I. N. Vechko, A. V. Ditman, and A. R. Regel'. 9, 2902 (1968) [9, 3669 (1967)]

VEDERNIKOV, M. V.
Anomalous Decrease of the Electrical Resistivity of Metallic Chromium Due to Alloying with Vanadium and Titanium. (E) M. V. Vedernikov. 9, 2381 (1968) [9, 3018 (1967)]

VEDULA, Yu. S.
Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavrilyuk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]

VEKHTER, B. G.
The Interband Interaction and Spontaneous Polarization of a Crystal Lattice. (T) I. B. Bersuker and B. G. Vekhter. 9, 2084 (1968) [9, 2652 (1967)]

VEKILOV, Yu. Kh.
Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Bellin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Podd'yakov. 9, 1467 (1968) [9, 1861 (1967)]

VERBITSKAYA, T. N.
Effect of Electron and γ Irradiation on VK-2 and VK-4 Type "Variconds." (E) I. I. Kuz'min, S. P. Solov'ev, T. N. Verbitskaya, and V. A. Kharchenko. 9, 713 (1967) [9, 918 (1967)]
Temperature Characteristics of Varikonds in the 3-cm Range of Wavelengths. (E) T. N. Verbitskaya, Yu. M. Poplavko, and B. Ya. Yaryzhkii. 9, 2634 (1968) [9, 3344 (1967)]

VERESHCHAGIN, L. F.
Investigation of $\alpha \rightleftarrows \beta$ Transition in GeTe–SnTe Alloys at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 9, 2527 (1968) [9, 3208 (1967)]

VERKHOVSKAYA, K. A.
Behavior of the Fundamental Absorption Edge of Ferroelectric Hydrosulenites in the Vicinity of Phase Transitions. (E) N. R. Ivanov and K. A. Verkhovskaya. 9, 2337 (1968) [9, 2974 (1967)]

VERKHOZIN, A. N.
Investigation of the Domain Structure of "Hypercritical" Permalloy Films by the Magnetooptical Method. (E) G. S. Krinchik, A. N. Verkhozin, and S. A. Gushchina. 9, 1812 (1968) [9, 2314 (1967)]

Magnetic Reversal of "Hypercritical" Permalloy Films in an Alternating Magnetic Field. (E) A. N. Verkhozin. 9, 2141 (1968) [9, 2728 (1967)]

VERTSNER, V. N.
Scanning Electron-Microscope Observation of the Action of Light on the Potential Distribution in a p-n Junction. (E) V. N. Vertsner, Yu. V. Chentsov, and V. M. Krygin. 9, 391 (1967) [9, 513 (1967)]

VETER, V. V.
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Ershov. 9, 854 (1967) [9, 1093 (1967)]

VINNIK, M. A.
Magnetic Structure of the Hexaferrite $Ba_2Me_2Fe_{28}O_{41}$ (Me_2Z). (E) I. I. Petrova, M. A. Vinnik, and L. N. Grigor'eva. 9, 2389 (1968) [9, 3026 (1967)]

VINNIKOV, A. P.
Isomer Shifts of Impurity Sa^{119} Nuclei in Some Semiconducting Compounds. (E) V. V. Chekin, A. P. Vinnikov, and O. P. Balkashin. 9, 2354 (1968) [9, 2992 (1967)]

VINOGRADOV, K. N.
Amplification of High-Intensity Ultrasound in Cadmium Sulfide Single Crystals. (E) B. P. Vasil'ev and K. N. Vinogradov. 9, 1052 (1967) [9, 1345 (1967)]

VINOGRADOVA, M. N.
Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]
Effect of Interband Interaction of Light and Heavy Holes on the Lorentz Number in Doped p-PbTe Single Crystals in the High- and Low-Temperature Regions. (E) M. N. Vinogradova, N. V. Kolomoets, I. A. Smirnov, and L. M. Sysoeva. 9, 2368 (1968) [9, 3004 (1967)]

VINOKUROV, I. V.
Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3389 (1967)]

VINOKUROV, V. M.
Electron Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) R. Yu. Abdulsabirov, V. M. Vinokurov, M. M. Zaripov, and V. G. Stepanov. 9, 541 (1967) [9, 689 (1967)]
Magnitude of the Initial Splittings of Gadolinium Ions in Crystals of the Scheelite Series. (E/T) V. M. Vinokurov and V. G. Stepanov. 9, 844 (1967) [9, 1081 (1967)]

VISHNEVSKII, I. I.
Phonon Scattering by Distorted Lattices of Ionic Crystals Containing Nonstoichiometric Vacancies. (E/T) I. I. Vishnevskii and V. N. Skripak. 9, 2129 (1968) [9, 2713 (1967)]
Influence of Anion Vacancies on the Lattice Thermal Conductivity of Coordination Crystals Having the Spinel Structure at Low Temperature. (E) I. I. Vishnevskii and V. N. Skripak. 9, 2865 (1968) [9, 3633 (1967)]

VISHNYAKOV, B. A.
Obtaining Thin Films of Molybdenum Carbide from Molybdenum Hexacarbonyl under the Action of an Electron Beam. (E) B. A. Vishnyakov and K. A. Osipov. 9, 1216 (1967) [9, 1545 (1967)]

VITMAN, F. F.
Nature of the Damage of High-Strength Glass and Possibilities of Protecting Glass. (E) L. G. Balkova, F. F. Vitman, T. G. Dmitrieva, and V. P. Pukh. 9, 385 (1967) [9, 480 (1967)]
Importance of Waterproofing Glass for Its High-Strength State. (E/T) V. A. Bershtein and F. F. Vitman. 9, 1272 (1967) [9, 1618 (1967)]
Influence of Heat Treatment on the High-Strength State of Glass. (E) L. G. Balkova, F. F. Vitman, and V. P. Pukh. 9, 1716 (1968) [9, 2185 (1967)]

VITRIKHOVSKII, N. I.
Luminescence of Mixed ZnS_x-CdS_{1-x} Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. V. Zakrevskii, and V. Yu. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]

EPR of Mn^{2+} in $Cd(S_{1-x}:Se_x)$ Single Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 9, 1912 (1968) [9, 2437 (1967)]

VLADIMIROV, V. I.
Statistical Relationships Governing the Formation of Cracks in Polymethylmethacryiate under the Action of Laser Radiation. (E/T) V. I. Vladimirov, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]
Criteria of the Optical Strength of Transparent Dielectrics. (T/E) V. I. Vladimirov. 9, 2204 (1968) [9, 2804 (1967)]

VLADIMIRSKII, Yu. B.
Influence of Oxygen Impurity on the Conductivity of Lithium Fluoride. (E) Yu. B. Vladimirskii, T. I. Nikitinskaya, and P. A. Tsirul'nik. 9, 1666 (1968) [9, 2122 (1967)]

VLADIMIRTSEV, Yu. V.
Fine Structure of the Dipole Nuclear Acoustic Resonance of Al^{27} in Ruby. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, and U. Kh. Kopvillem. 9, 276 (1967) [9, 361 (1967)]
Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Averyanov. 9, 1899 (1968) [9, 2426 (1967)]

VLASOV, K. B.
Frequency and Size Resonances in Excitation of Elastic Waves. (T) K. B. Vlasov and V. G. Kuleev. 9, 2386 (1968) [9, 3022 (1967)]

VOITOVICH, E. I.
Thermal Expansion of Solidified Inert Gases. (E) V. G. Manzhelii, V. G. Gavriiko, and E. I. Voitovich. 9, 1157 (1967) [9, 1483 (1967)]

VOLK, T. R.
Ferroelectric Phase Transitions in Triglycine Sulfate at Pressures up to 10 kbars. (E) G. G. Leonidova, N. P. Netesova, and T. R. Volk. 9, 454 (1967) [9, 593 (1967)]

VOL'KENSHTEIN, F. F.
Sign of the Photoadsorption Effect in Semiconductors during the Absorption of Light by the Excitation Mechanism. (T) F. F. Vol'kenshtein and I. V. Karpenko. 9, 308 (1967) [9, 403 (1967)]

VOLKENSHTEIN, N. V.
Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]
Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]

VOLKOVA, N. V.
Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]
Investigation of the Mechanism of Optical Damage of Lithium Fluoride Single Crystals. (E) N. V. Volkova, V. A. Likhachev, M. I. Stepanov, and L. M. Shestopalov. 9, 609 (1967) [9, 778 (1967)]
Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]

VOROB'EV, G. A.
Some Physical Processes in Rocksalt in Strong Electric Fields. (E) G. A. Vorob'ev and I. S. Pikalova. 9, 755 (1967) [9, 961 (1967)]

VOROB'EVA, I. V.
Anisotropy of the Orientation of the Tracks of Uranium Fission Fragments in LiF Single Crystals. (E) Ya. E. Gegusin, I. G. Berzina, and I. V. Vorob'eva. 9, 2642 (1968) [9, 3350 (1967)]

VORONIN, V. B.
Work Function of the Adsorption System Scandium–Tungsten. (E) V. B. Voronin. 9, 1758 (1968) [9, 2242 (1967)]

VORONKOV, É. N.
Effects of CdTe, Te, and Cd Condensation Rates on the Critical Temperatures and Phase Content of Thin Films. (E) K. V. Shalimova and É. N. Voronkov. 9, 1169 (1967) [9, 1497 (1967)]
VOTINOV, M. P.
Exchange Interactions of Cr^{3+} Ions in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 9, 1663 (1968) [9, 2119 (1967)]
Electron Paramagnetic Resonance of Cr^{3+} in $LaAlO_3$ Single Crystals. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 9, 2871 (1968) [9, 3639 (1967)]
VUL, B. M.
Excess Current in Tunnel Diodes. (E) B. M. Vul, É. I. Zavaritskaya, and N. V. Zavaritskii. 9, 2530 (1968) [9, 3212 (1967)]
WANG, MING
Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Koptsik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]
YAFAEV, N. R.
EPR of Mn^{2+} in Borate and Silicate Glasses. (E) É. I. Abdrashitova and N. R. Yafaev. 9, 2500 (1968) [9, 3172 (1967)]
YAKOVENKO, V. M.
Excitation of Surface Electromagnetic Waves in Semiconductors. (T) S. I. Khankina and V. M. Yakovenko. 9, 443 (1967) [9, 578 (1967)]
Theory of Surface Waves in Solids. (T) S. I. Khankina and V. M. Yakovenko. 9, 2313 (1968) [9, 2943 (1967)]
YAKOVLEV, Yu. M.
Effect of Thermodynamic Fluctuations of the Magnetization on the Ferromagnetic Resonance Line Width. (E) Yu. M. Yakovlev and Yu. R. Shil'nikov. 9, 920 (1967) [9, 1178 (1967)]
Instability of Spin Waves in an Antiferromagnet Having an "Easy Axis" Anisotropy. Linear Approximation. (T) Yu. M. Yakovlev. 9, 2614 (1968) [9, 3323 (1967)]
YANSON, I. K.
Experimental Observation of Electromagnetic Radiation from Sn–Pb, Pb–Pb, and In–In Superconducting Tunnel Junctions. (E) I. M. Dmitrenko, I. K. Yanson, and I. I. Yurchenko. 9, 2889 (1968) [9, 3656 (1967)]
YAROSHETSKII, I. D.
Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]
Statistical Relationships Governing the Formation of Cracks in Polymethylmethacrylate under the Action of Laser Radiation. (E/T) V. I. Vladimirov, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]
Two-Photon Photoconductivity in CdS Excited with Giant Pulses from Ruby Laser. (E) B. M. Ashkinadze, A. A. Grinberg, S. M. Ryvkin, and I. D. Yaroshetskii. 9, 461 (1967) [9, 601 (1967)]
Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]
Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmonov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]
Dependence of the Intensity of Stimulated Mandel'shtam–Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Ryvakov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]
YAS'KOV, D. A.
Dispersion of the Index of Refraction of Gallium Phosphide. (T/E) A. N. Pikhtin and D. A. Yas'kov. 9, 107 (1967) [9, 145 (1967)]
Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]
YASSIEVICH, I. N.
Theory of the Photomagnetic Effect on Heated Electrons. (T) R. I. Lyagushchenko and I. N. Yassievich. 9, 2794 (1968) [9, 3547 (1967)]
YASTREBINSKII, A. A.
Formation of Submicroscopic Cracks in Loaded Oriented Amorphous-Crystalline Polymers. (E) V. S. Kuksenko, A. I. Slutsker, and A. A. Yastrebinskii. 9, 1869 (1968) [9, 2390 (1967)]
YASTREBOV, V. N.
Magnetic Resonance in Singlet Electronic Levels of V^{3+} Ions in Corundum. (E/T) V. N. Yastrebov. 9, 95 (1967) [9, 129 (1967)]
Observation of the NMR of Al^{27} in Corundum Due to Transitions with $\Delta m = \pm 2$. (E) V. N. Yastrebov. 9, 1226 (1967) [9, 1555 (1967)]
Longitudinal Relaxation at Simple Electron Levels of V^{3+} Ions in Corundum. (E) V. N. Yastrebov. 9, 2174 (1968) [9, 2760 (1967)]
YATSENKO, A. A.
Equations of Motion for the Magnetization and Equations for the Temperature Change in a Ferrodielectric. (T) É. G. Petrov and A. A. Yatsenko. 9, 2022 (1968) [9, 2568 (1967)]
YAZYTSKII, B. Yu.
Temperature Characteristics of Varikonds in the 3-cm Range of Wavelengths. (E) T. N. Verbitskaya, Yu. M. Poplavko, and B. Ya. Yazytskii. 9, 2634 (1968) [9, 3344 (1967)]
YUDIN, D. M.
Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]
YUMASHEV, Yu. M.
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Pilipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]
YURASOVA, V. E.
Dielectric Films Produced by Reactive Sputtering. (E) Yu. A. Prokhorov, V. V. Shakmanov, L. B. Shelyakin, and V. E. Yurasova. 9, 1091 (1967) [9, 1398 (1967)]
Reflection of Ions Obliquely Incident on a Single Crystal. (T) V. E. Yurasova and D. S. Karpuzov. 9, 1971 (1968) [9, 2508 (1967)]
YURCHENKO, I. I.
Experimental Observation of Electromagnetic Radiation from Sn–Pb, Pb–Pb, and In–In Superconducting Tunnel Junctions. (E) I. M. Dmitrenko, I. K. Yanson, and I. I. Yurchenko. 9, 2889 (1968) [9, 3656 (1967)]
YURCHENKO, T. D.
Initial Permeability of Cobalt–Zinc Ferrites. (E) S. A. Poltinnikov, N. N. Parfenova, and T. D. Yurchenko. 9, 1230 (1967) [9, 1558 (1967)]
YUR'EVA, E. K.
Effect of Mn^{3+} Ions on Relaxation Processes in Ferrites. (E) E. V. Lebedeva, A. I. Pil'shchikov, and E. K. Yur'eva. 9, 237 (1967) [9, 317 (1967)]
YUR'EVA, N. D.
Change in Electrical Resistivity in the α-Phase of Scandium Hydride. (E) Z. M. Azarkh, V. N. Funin, and N. D. Yur'eva. 9, 1066 (1967) [9, 1364 (1967)]
YUR'EVA, O. P.
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Leshchko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3665 (1967)]
YUSHCHUK, S. I.
Magnetic Fields at Tin Nuclei in a Manganese Ferrite. (E) G. V. Novikov, V. A. Trukhtanov, S. I. Yushchuk, and N. A. Grigoryan. 9, 2350 (1968) [9, 2988 (1967)]
ZAITOV, F. N.
Microspectrophotometric Investigation of the Thermal Stability of F Color Centers in NaCl, KCl, and KBr Crystals. (E) F. N. Zaitov and B. I. Sidlyarenko. 9, 2189 (1968) [9, 2785 (1967)]

Thermal Ionization Mechanism for F Centers in Alkali-Halide Crystal Phosphors. (T/E) F. N. Zaitov and E. S. Dudarev. 9, 2435 (1968) [9, 3087 (1967)]

ZAITOV, M. M.
Influence of Uniaxial Pressure on the ESR Spectrum of the Mn^{2+} Ion in Calcite. (E) M. M. Zaitov. 9, 346 (1967) [9, 453 (1967)]

ZAITSEV, R. O.
Properties of Superconductors Having Overlapping Bands. (T) B. T. Geilikman, R. O. Zaitsev, and V. Z. Kresin. 9, 642 (1967) [9, 821 (1967)]

ZAKHARCHENYA, B. P.
Magnetooptical Oscillations of Absorption in Germanium Crystals Free of Mechanical Stresses. (E) A. V. Varfalomeev, B. P. Zakharchenya, and R. P. Seisyan. 9, 847 (1967) [9, 1085 (1967)]

ZAKHAROV, V. M.
Influence of the Deformation and Geometric Dimensions on the Thermal Conductivity of Sodium Chloride. (E) V. M. Zakharov. 9, 1183 (1967) [9, 1514 (1967)]
Thermal Conductivity of Potassium Chloride at Helium Temperatures. (E) V. M. Zakharov. 9, 1195 (1967) [9, 1526 (1967)]

ZAKHAROVA, M. V.
Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Berezhkova. 9, 783 (1967) [9, 997 (1967)]

ZAKREVSKII, S. Z.
Luminescence of Mixed $ZnS_x - CdS_{1-x}$ Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. Z. Zakrevskii, and V. Ya. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]

ZAKREVSKII, V. A.
EPR Studies of Rupture Points in Mechanically Stressed Polyamide Macromolecules. (E/T) V. A. Zakrevskii, É. E. Tomashevskii, and V. V. Baptizmanskii. 9, 1118 (1967) [9, 1434 (1967)]

ZARIPOV, M. M.
Electron Paramagnetic Resonance of Vanadium and Chromium in CaF_2. (E/T) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 155 (1967) [9, 209 (1967)]
Electron Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) R. Yu. Abdulsabirov, V. M. Vinokurov, M. M. Zaripov, and V. G. Stepanov. 9, 541 (1967) [9, 689 (1967)]
Detection of Ti^{2+} Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 992 (1967) [9, 1265 (1967)]
EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]
Detection of V^{2+} in SrF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2346 (1968) [9, 2984 (1967)]
EPR of Copper and Titanium Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2347 (1968) [9, 2985 (1967)]

ZARITSKII, I. M.
Exchange Pairs of Nitrogen Impurities in Diamond. (E/T) L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko. 9, 1545 (1968) [9, 1984 (1967)]

ZAROCHENTSEV, E. V.
Low-Frequency Electrical Oscillations in Barium Titanate. (E) V. A. Servuli, E. V. Zarochentsev, and O. I. Prokopalo. 9, 1919 (1968) [9, 2444 (1967)]

ZARUTSKII, E. M.
Penetration of Hydrogen Ions into Copper. (E) E. M. Zarutskii. 9, 1172 (1967) [9, 1500 (1967)]
Energy Spectrum of Alkali Metal Ions Transmitted by Thin Copper Films. (E) E. M. Zarutskii. 9, 1495 (1968) [9, 1896 (1967)]

ZASLAVSKII, Yu. I.
Theoretical Determination of the Stacking-Fault Energy in Nontransition Metals. (T) G. L. Krasko, V. N. Tellyants, R. T. Pozvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]

ZAVADSKII, É. A.
Magnetic Properties of an FeRh Alloy in Strong Magnetic Fields. (E) É. A. Zavadskii and I. G. Fakidov. 9, 103 (1967) [9, 139 (1967)]

ZAVARITSKAYA, É. I.
Excess Current in Tunnel Diodes. (E) B. M. Vul, É. I. Zavaritskaya, and N. V. Zavaritskii. 9, 2530 (1968) [9, 3212 (1967)]

ZAVARITSKII, N. V.
Excess Current in Tunnel Diodes. (E) B. M. Vul, É. I. Zavaritskaya, and N. V. Zavaritskii. 9, 2530 (1968) [9, 3212 (1967)]

ZAVT, G. S.
Vibrational Instability of Impurity Centers and Nonsymmetric Distortions of the Lattice. (T) N. N. Kristofel' and G. S. Zavt. 9, 1246 (1967) [9, 1582 (1967)]

ZEMLYANOV, M. G.
A Lattice-Dynamical Investigation of the Hydrides CeH_2, CeH_3, ThH_2, and $UH_{1.7}$ Using Inelastic Scattering of Cold Neutrons. (E) I. Karimov, M. G. Zemlyanov, M. E. Kost, V. A. Somenkov, and N. A. Chernoplekov. 9, 1366 (1967) [9, 1740 (1967)]
Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1566 (1968) [9, 1991 (1967)]

ZEVIN, V. Ya.
Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Maevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 983 (1967)]

ZHERNOV, A. P.
Effect of Force Constant Changes on the Properties of Crystals Containing Impurity Atoms. (T) A. P. Zhernov and G. R. Augst. 9, 1724 (1968) [9, 2196 (1967)]

ZHERNOVOI, A. I.
Fast Adiabatic Passage in Nuclear Magnetic Resonance. (T) A. I. Zhernovoi. 9, 523 (1967) [9, 673 (1967)]

ZHERU, I. I.
Spin-Lattice Relaxation of Localized Electron Centers with Hyperfine Interaction. (T) M. F. Deigen and I. I. Zheru. 9, 1320 (1967) [9, 1679 (1967)]
Double Electron-Nuclear Magnetoacoustic Resonance at Localized Electronic Centers. (T) M. F. Deigen and I. I. Zheru. 9, 2053 (1968) [9, 2611 (1967)]

ZHIDKOV, O. P.
Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR Lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1967) [9, 1403 (1967)]
Saturation of Inhomogeneously Broadened Magnetic Resonance Lines in Solids. (T) O. P. Zhidkov. 9, 2543 (1968) [9, 3229 (1967)]

ZHITARU, R. P.
Effect of X-Ray Irradiation on Prehardened Regions of NaCl Single Crystals. (E) Yu. S. Boyarskaya and R. P. Zhitaru. 9, 1672 (1968) [9, 2129 (1967)]

ZHITNIKOV, R. A.
A Theoretical Examination of Hyperfine Structure Splitting Matrix Shifts in Cu, Ag, and Au Atoms Stabilized in a Polar Matrix (H_2O). (T/E) R. A. Zhitnikov and N. V. Kolesnikov. 9, 121 (1967) [9, 162 (1967)]

ZHOGOLEV, D. A.
Temperature and Field Dependence of the Knight Shift in Metals and Semiconductors. (T) D. A. Zhogolev. 9, 42 (1967) [9, 59 (1967)]
Amplitude of Knight Shift Oscillations. (E/T) D. A. Zhogolev and D. G. Dolgopolov. 9, 982 (1967) [9, 1256 (1967)]

ZHUKOVA, I. I.
Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]

Discrete Absorption by 4d Electrons in the Lanthanum Group Rare-Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]

ZHULYAEV, Yu. V.

Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

ZIL'BERMAN, P. E.

Nonlinear Theory of Acoustic Instability in Piezoelectric Semiconductors. (T) P. E. Zil'berman. 9, 231 (1967) [9, 309 (1967)]

ZIMKINA, T. M.

Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]

Discrete Absorption by 4d Electrons in the Lanthanum Group Rare-Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]

X-Ray Satellites of Silicon. (E) V. A. Fomichev and T. M. Zimkina. 9, 1441 (1967) [9, 1833 (1967)]

ZINGERMAN, Ya. P.

Investigation of the Processes of Sorption of Oxygen on (100) and (110) Faces of a Tungsten Single Crystal Using the Electron-Stimulated Desorption Effect. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 623 (1967) [9, 797 (1967)]

Mechanism and Kinetics of the Process of Sorption of Oxygen on the (111) Face of a Tungsten Single Crystal. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 1992 (1968) [9, 2529 (1967)]

Mechanism of Electron-Stimulated Desorption of Oxygen from the Surface of Tungsten. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 2638 (1968) [9, 3347 (1967)]

ZOLOTAREV, V. F.

Thermally Stimulated Current Method under Photoelectret Conditions. (E) D. G. Semak, D. V. Chepur, and V. F. Zolotarev. 9, 966 (1967) [9, 1242 (1967)]

ZONN, Z. N.

Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Erbium and Ytterbium. (E) A. A. Antipin, Z. N. Zonn, V. A. Ioffe, A. N. Katyshev, and L. Ya. Shekun. 9, 521 (1967) [9, 671 (1967)]

Trivalent Rare Earths in Cerium Dioxide Single Crystals. Dysprosium. (E) Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1682 (1968) [9, 2138 (1967)]

Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]

Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3369 (1967)]

ZORIN, E. I.

Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]

Investigation of the Distribution of Boron Atoms in Silicon Doped by Ion Bombardment. (E) E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 2874 (1968) [9, 3642 (1967)]

ZOTOV, T. D.

Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]

Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]

ZOTOVA, N. V.

Investigation of the Electroluminescence of p-n Junctions in Indium Arsenide. (E) N. P. Esina, N. V. Zotova, and D. N. Nasledov. 9, 1036 (1967) [9, 1324 (1967)]

ZUEV, V. A.

Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ursulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]

ZVEREV, G. M.

Concentration Quenching of Erbium Luminescence in Yttrium–Aluminum Garnet. (E) R. V. Bakradze, G. M. Zverev, G. Ya. Kolodnyi, G. P. Kuznetsova, and A. M. Onishchenko. 9, 733 (1967) [9, 939 (1967)]

Splitting of the Energy Levels of the Er^{3+} Ion in the Crystal Field of Strontium Molybdate. (E) Yu. A. Bobrovnikov, G. M. Zverev, and A. I. Smirnov. 9, 1403 (1967) [9, 1794 (1967)]

Crystal Field Parameters of Trigonal Er^{3+} Centers in CaF_2 Crystals. (E/T) G. M. Zverev and A. I. Smirnov. 9, 1586 (1968) [9, 2019 (1967)]

EPR of Ground and Excited States of Er^{3+} Ions in Calcium and Strontium Molybdate Crystals. (E) G. M. Zverev, L. V. Makarenko, and A. I. Smirnov. 9, 2883 (1968) [9, 3651 (1967)]

ZVEREVA, G. A.

Optical Spectrum of a $CaF_2:Sm^{2+}$ Crystal. (E) G. A. Zvereva and V. P. Makarov. 9, 2356 (1968) [9, 2994 (1967)]

ZVEZDIN, A. K.

Polarization of Spins by Hot Electrons in a Quantizing Magnetic Field. (T/E) A. K. Zvezdin. 9, 1843 (1968) [9, 2354 (1967)]

ZVIADADZE, M. D.

Theory of Spin-Lattice Relaxation of Impurity Centers. (T) L. I. Buishvili, and M. D. Zviadadze. 9, 1549 (1968) [9, 1969 (1967)]

ZVYAGIN, A. I.

Magnetic Ordering of Zinc Tungstate with a High Concentration of Manganese Impurity. (E) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 9, 2152 (1968) [9, 2739 (1967)]

ZVYAGINA, A. P.

X-Ray Determination of Dispersion Curves of the Ionic Crystals KCl and KI. (E) V. I. Iveronova, Parangtopo, and A. P. Zvyagina. 9, 1265 (1967) [9, 1609 (1967)]

SOVIET PHYSICS - SOLID STATE
Volume 9, 1967
A translation of Fizika Tverdogo Tela

Acoustical Properties and Effects
Band Structure and Theory
Crystals and Crystal Structure
Deformation
Dielectric Materials, Properties, and Effects
Diffusion
Dislocations
Elasticity and Plasticity
Electrical Conductivity
Electrical Properties and Effects
Electroluminescence
Electron Emission and Absorption
Electron Paramagnetic Resonance
Ferroelectric Materials and Properties
Ferromagnetic and Ferrimagnetic Materials, Properties, and Effects
Films, Thin
Friction
Galvanomagnetic Effects
Gamma Radiation
Glass
Impurities
Ions and Ionic Crystals
Irradiation Effects
Magnetic Properties, Effects, and Materials
Masers and Lasers
Mathematical Physics
Metals
Nuclear Magnetic Resonance
Optical Properties, Effects, and Techniques
Photochemical Effects
Photoconductivity
Photoelectric Properties and Effects
Photoluminescence
Photomagnetic Properties and Effects
Plasmas
Polymers
Progress in Solid State Physics in the USSR
Quantum Mechanics
Recombination
Resonance
Scattering
Semiconductor Metallurgy
Semiconductor Theory
Spectra
Superconductivity
Surface Properties
Thermal Properties and Effects
Thermodynamics and Statistical Mechanics
Thermoelectric Properties and Effects
Thermomagnetic Phenomena
X Rays

ACOUSTICAL PROPERTIES AND EFFECTS

Anisotropy of the Ultrasonic Attenuation Factor in Yttrium Garnet. (E) A. Nasyrov and A. V. Pavlenko. 9, 205 (1967) [9, 276 (1967)]
Nonlinear Theory of Acoustic Instability in Piezoelectric Semiconductors. (T) P. E. Zil'berman. 9, 331 (1967) [9, 309 (1967)]
Fine Structure of the Dipole Nuclear Acoustic Resonance of Al^{27} in Ruby. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, and U. Kh. Kopvillem. 9, 276 (1967) [9, 361 (1967)]
Acoustomagnetoelectric Effect in Monopolar Conductors. (T) É. M. Épshtein and Yu. V. Gulyaev. 9, 288 (1967) [9, 376 (1967)]
Microhardness and the Absorption of Ultrasound in Ternary Alloys of Bismuth with Tellurium and Tin. (E) V. V. Nekrasov. 9, 314 (1967) [9, 411 (1967)]
Acoustic Concentration Effect in Semiconductors. (T) Yu. V. Gulyaev. 9, 329 (1967) [9, 431 (1967)]
Scattering of Polarons by Acoustic Lattice Vibrations. (T) G. M. Shmelev. 9, 371 (1967) [9, 488 (1967)]
Absorption of High-Frequency Longitudinal Sound in Solids at Low Temperatures. (T) L. É. Gurevich and B. I. Shklovskii. 9, 401 (1967) [9, 526 (1967)]
Velocity of Longitudinal and Transverse Ultrasonic Waves in Polycrystalline Normal Hydrogen. (E/T) P. A. Bezuglyi and R. Kh. Minyafaev. 9, 480 (1967) [9, 624 (1967)]
Effect of Traps on the Amplification of Ultrasound in Cadmium Sulfide. (E) S. G. Kalashnikov, A. I. Morozov, and B. A. Stankovskii. 9, 670 (1967) [9, 859 (1967)]
Acoustothermal Effects in Solids. (T) Yu. V. Gulyaev and É. M. Épshtein. 9, 674 (1967) [9, 864 (1967)]
Theory of the Acoustoelectric Effect in Dielectrics. (T) I. V. Ioffe. 9, 740 (1967) [9, 946 (1967)]
Nonresonance Magnetic Absorption of Ultrasound by Nuclei in a Metal. (T/E) B. M. Khabibullin. 9, 800 (1967) [9, 1020 (1967)]
Theory of Ferromagnetic Free Induction and Echo. (T) U. Kh. Kopvillem. 9, 813 (1967) [9, 1038 (1967)]
Theory of the Absorption of Ultrasound by Graphite. (T) M. I. Kaganov and A. I. Semenenko. 9, 884 (1967) [9, 1129 (1967)]
Absorption of Ultrasound during Phase Transitions in Triglycine Sulfate-Type Ferroelectrics. (E) K. A. Minaeva, A. P. Levanyuk, B. A. Strukov, and V. A. Koptsik. 9, 950 (1967) [9, 1220 (1967)]
Ultrasonic Excitation of Magnetic Dipole Transitions of Pr^{19} Nuclei in LiF Single Crystals. (E) V. A. Shutilov and G. L. Antokol'skii. 9, 958 (1967) [9, 1231 (1967)]
Super-nonradiative State of Matter. (T) U. Kh. Kopvillem and V. R. Nagibarov. 9, 1008 (1967) [9, 1287 (1967)]
A contribution to the Theory of the Shape of the Acoustomagnetic Resonance Line. (T) M. N. Aliev. 9, 1020 (1967) [9, 1304 (1967)]
Amplification of High-Intensity Ultrasound in Cadmium Sulfide Single Crystals. (E) B. P. Vasil'ev and K. N. Vinogradov. 9, 1052 (1967) [9, 1345 (1967)]
Modulation of the Tunneling Current by Sound Waves in a Superconductor. (T) G. I. Urushadze. 9, 1206 (1967) [9, 1536 (1967)]
Variation of Ultrasonic Absorption in Fast and Programmed Loading. (E/T) I. A. Gindin, I. M. Neklyudov, and V. B. Rabukhin. 9, 1410 (1967) [9, 1802 (1967)]
Possibility of Observing an Acousto-emf in Nonconducting Piezoelectrics. (T) A. A. Chaban. 9, 1432 (1967) [9, 1824 (1967)]
Paraelectric Induction and Echo. (T) R. V. Shubina. 9, 1456 (1967) [9, 1847 (1967)]
Absorption of Hypersound in Ferrodielectrics at Low Temperatures. (T) B. I. Shklovskii. 9, 1512 (1968) [9, 1917 (1967)]
Interaction between Radiations Defects and Dislocations in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 9, 1603 (1968) [9, 2043 (1967)]
Acoustical Noise in CdSe. (E) V. I. Baĭbakov. 9, 1654 (1968) [9, 2109 (1967)]
Effect of an External Electric Field on the Absorption of Sound in a Dielectric. (T) I. V. Ioffe and B. I. Shklovskii. 9, 1660 (1968) [9, 2116 (1967)]

Absorption of Longitudinal Long-Wave Ultrasound in Superconducting Alloys Having a Multiband Anisotropic Fermi Surface. (T) I. I. Fal'ko. 9, 1668 (1968) [9, 2124 (1967)]

Oscillations of the Current in Piezoelectric Semiconductors. (E) V. I. Baibakov and G. S. Pado. 9, 1678 (1968) [9, 2135 (1967)]

Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. (T) S. L. Ginzburg, O. V. Konstantinov, and V. I. Perel'. 9, 1684 (1968) [9, 2139 (1967)]

Ultrasonic Relaxation near a Ferroelectric Phase Transition Point of the Second Kind in an Electric Field. (T/E) S. Ya. Geguzina and B. L. Timan. 9, 1702 (1968) [9, 2167 (1967)]

Theory of Sound and Drift Waves in Crystals Having a Large Dielectric Constant. (T) Yu. A. Kukibnyi and V. N. Piskovoi. 9, 1737 (1968) [9, 2215 (1967)]

Use of a Comparison Method in Measurement of the Acoustoelectric emf. (E) L. V. Selivanov and Yu. E. Nevskii. 9, 1783 (1968) [9, 2274 (1967)]

Generation of Hypersound and the Acoustic Excitation of Spin Waves by Means of a Thin Magnetic Film. (T) V. A. Ignatchenko and E. V. Kuz'min. 9, 1785 (1968) [9, 2277 (1967)]

Velocity of Ultrasound and ΔE Effect in Ceramic Ferropiezoelectric Elements. (E) I. I. Fedotov. 9, 1891 (1968) [9, 2419 (1967)]

Change in the Lattice Constant of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva, S. A. Smiryagina, and A. A. Shishelov. 9, 1897 (1968) [9, 2424 (1967)]

Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Aver'yanov. 9, 1899 (1968) [9, 2426 (1967)]

Double Electron-Nuclear Magnetoacoustic Resonance at Localized Electronic Centers. (T) M. F. Deigen and I. I. Zheru. 9, 2053 (1968) [9, 2611 (1967)]

Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Sazonov. 9, 2096 (1968) [9, 2670 (1967)]

Absorption of Ultrasound by Dislocations in Deformed KCl Crystals. (E) Kh. M. Khalilov and A. I. Agaev. 9, 2143 (1968) [9, 2729 (1967)]

Theory of Cyclotron Echo. (T) Ya. Ya. Asadullin and U. Kh. Kopvillem. 9, 2150 (1968) [9, 2737 (1967)]

Theory of the Interaction of Charged Particles with a Dielectric. (T) I. V. Ioffe. 9, 2161 (1968) [9, 2745 (1967)]

Absorption of Ultrasonic Waves in a Tellurium Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 9, 2290 (1968) [9, 2912 (1967)]

Propagation of 10^4 MHz Hypersound Perpendicular to the Optic Axis in $LiNbO_3:Cr^{3+}$ at Room and Helium Temperatures. (E) B. P. Smolyakov, L. M. Meil'man, V. P. Klyuev, I. A. Shpil'ko, and U. Kh. Kopvillem. 9, 2366 (1968) [9, 3002 (1967)]

Amplification of Longitudinal Acoustic Waves in CdS. (E) G. S. Pado and V. I. Baibakov. 9, 2373 (1968) [9, 3010 (1967)]

Theory of Acoustic Plasma Waves in Bismuth. (T) O. V. Konstantinov and V. I. Perel'. 9, 2409 (1968) [9, 3051 (1967)]

Influence of the Long-Range Dipole-Dipole Forces on the Attenuation and Velocity of Ultrasound in Ferroelectrics near the Second-Order Transition Point. (T) S. Ya. Geguzina and M. A. Krivoglaz. 9, 2441 (1968) [9, 3095 (1967)]

Formation of Metallic Modifications of Germanium and Silicon under Shock Loading. (E) M. N. Pavlovskii. 9, 2514 (1968) [9, 3192 (1967)]

Theory of the Acoustoelectric Effect. (T) V. D. Kagan. 9, 2591 (1968) [9, 3293 (1967)]

Resonance Absorption of Sound Waves in Iron Garnet Single Crystals. (E/T) K. V. Goncharov, V. A. Krasil'nikov, and V. I. Uchastkin. 9, 2671 (1968) [9, 3384 (1967)]

A Contribution to the Kinetic Theory of Acoustic Absorption in Metals. (T) M. I. Kaganov and V. G. Peschanskii. 9, 2810 (1968) [9, 3570 (1967)]

Velocity of Sound and Elastic Properties of Normal Polycrystalline Deuterium. (E) P. A. Bezugiyi and R. Kh. Minyafaev. 9, 2854 (1968) [9, 3622 (1967)]

Conditions for Forming an Acoustoelectric Domain during Amplification of Thermal Noise in Piezoelectric Semiconductors. (T) B. L. Timan. 9, 2908 (1968) [9, 3675 (1967)]

BAND STRUCTURE AND THEORY

Infrared Absorption Spectrum of the Antiferromagnets $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova, I. G. Sinii, R. V. Pisarev, and P. P. Syrnikov. 9, 15 (1967) [9, 21 (1967)]

Fluctuation Levels in the Glassy Semiconductor $Tl_2Se \cdot As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. 9, 19 (1967) [9, 27 (1967)]

GaAs Semiconductor Laser Optically Excited by Radiation Having Energy Close to the Forbidden Band Width. (E/T) N. G. Basov, A. Z. Grasyuk, V. F. Efimkov, and V. A. Katulin. 9, 65 (1967) [9, 88 (1967)]

Theory of Interband Magnetic Breakdown in Metals. (T) A. A. Slutskin and A. M. Kadigrobov. 9, 138 (1967) [9, 184 (1967)]

Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feoktistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

Reduction of the Forbidden Band Width of a Heavily Doped Semiconductor. (T/E) A. A. Rogachev. 9, 283 (1967) [9, 369 (1967)]

Spatial Dispersion Effects in Gyrotropic Crystals. (E/T) V. A. Kizel', Yu. I. Krasilov, and V. N. Shamraev. 9, 571 (1967) [9, 728 (1967)]

Properties of Superconductors Having Overlapping Bands. (T) B. T. Geilikman, R. O. Zaitsev, and V. Z. Kresin. 9, 642 (1967) [9, 821 (1967)]

Influence of Uniaxial Compression on the Interimpurity Radiative Recombination in Germanium. (E) V. P. Dobrego, S. M. Ryvkin, and I. S. Shlimak. 9, 1131 (1967) [9, 1451 (1967)]

Determination of Effective Mass in LaSb from the Infrared Reflection Spectrum. (E) E. V. Goncharova and A. A. Kukharskii. 9, 1214 (1967) [9, 1543 (1967)]

Parameters of a Model of Two Valence Bands for SnTe from Measurements of the Hall Effect at High Temperatures. (E) A. A. Andreev. 9, 1232 (1967) [9, 1560 (1967)]

Probability of Tunneling through an Impurity Level. (T) V. I. Tikhonov. 9, 1364 (1967) [9, 1737 (1967)]

Splitting of the Ground Level of Double Acceptors in Semiconductors. (T) N. S. Baryshev, B. I. Beglov, and K. Ya. Shtivel'man. 9, 1463 (1967) [9, 1854 (1967)]

Energies and Intensities of Electron Transitions in $RbCoF_3$. (E) R. V. Pisarev and S. D. Prokhorova. 9, 1482 (1968) [9, 1879 (1967)]

Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]

Exciton-Phonon Interaction in One-Dimensional Molecular Crystals. (T) A. S. Davydov and B. M. Nitsovich. 9, 1749 (1968) [9, 2230 (1967)]

Experimental Investigation of the Optical Properties and of the Nonlinear Absorption Mechanism of Glass Containing Cadmium Selenide. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 9, 1776 (1968) [9, 2265 (1967)]

Galvanomagnetic Effects in Semiconductors Having Toroidal Isoenergetic Surfaces. (T) A. G. Aronov and P. Kh. Mussev. 9, 1790 (1968) [9, 2284 (1967)]

Electroluminescence Transport Equations and the Investigation of These Equations Using a Two-Stage Model. (T) E. Yu. L'vova. 9, 2068 (1968) [9, 2630 (1967)]

Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]

The Interband Interaction and Spontaneous Polarization of a Crystal Lattice. (T) I. B. Bersuker and B. G. Vekhter. 9, 2084 (1968) 9, 2652 (1967)]

Linear Stark Effect in the U-Band of Ruby. (E) A. A. Kaplyanskii and V. N. Medvedev. 9, 2121 (1968) [9, 2704 (1967)]

Monomolecular Semiconductor Layers on Metals. (T) L. N. Dobretsov. 9, 2177 (1968) [9, 2769 (1967)]
Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]
Paramagnetic Resonance Spectrum with the Electron-Phonon Interaction Taken into Consideration in the Case of Weak Coupling. (T) N. G. Koloskova and B. I. Kochelaev. 9, 2317 (1968) [9, 2948 (1967)]
Optical Spectrum of a $CaF_2:Sm^{2+}$ Crystal. (E) G. A. Zvereva and V. P. Makarov. 9, 2356 (1968) [9, 2994 (1967)]
Profile of the Fundamental Absorption Edge of the Ferroelectric Semiconductor SbSI. (E) E. I. Gerzanich. 9, 2358 (1968) [9, 2995 (1967)]
A Method for Determining the Conduction Band Structure and the Effective Mass of Electrons in Crystals from Electron-Nuclear Double Resonance Data. (T/E) V. G. Grachev, M. F. Deigen, and S. I. Pekar. 9, 2489 (1968) [9, 3157 (1967)]
Polaron Nature of the Current Carriers in Rutile (TiO_2). (T) V. N. Bogomolov, E. K. Kudinov, and Yu. A. Firsov. 9, 2502 (1968) [9, 3175 (1967)]
Field Effect in Bismuth. (E/T) Yu. F. Ogrin, V. N. Lutskii, and M. I. Elinson. 9, 2547 (1968) [9, 3234 (1967)]
Pairing Criterion in Electron Mechanism for Superconductivity. (T) B. T. Geilikman. 9, 2651 (1968) [9, 3359 (1967)]
The Possibility of the Generation of Vacuum Ultraviolet Radiation by Electron Excitation of Inert-Gas Crystals. (E) A. G. Molchanov, I. A. Poluéktov, and Yu. M. Popov. 9, 2655 (1968) [9, 3363 (1967)]
Relaxation of Localized Vibrational Excitation in a Crystal. (T) E. D. Trifonov. 9, 2680 (1968) [9, 3395 (1967)]
Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 2769 (1968) [9, 3516 (1967)]
Analysis of the Hypothesis of Current Rise Due to Injection during Electrical Aging of Titanium-Bearing Dielectrics. (E) S. N. Koikov, A. N. Tsikin, and A. Shakirov. 9, 2777 (1968) [9, 3527 (1967)]
Reversal of Magnetic Sublattices in Yttrium Orthoferrite. (E) A. T. Starovoitov and V. A. Bokov. 9, 2869 (1968) [9, 3637 (1967)]
EPR of Ground and Excited States of Er^{3+} Ions in Calcium and Strontium Molybdate Crystals. (E) G. M. Zverev, L. V. Makarenko, and A. I. Smirnov. 9, 2883 (1968) [9, 3651 (1967)]
Optical Width of the Forbidden Band in PbTe–PbS Solutions. (E) S. Kasimov, A. R. Regel', and V. K. Subashiev. 9, 2885 (1968) [9, 3653 (1967)]

CRYSTALS AND CRYSTAL STRUCTURE

Microscopic Theory of F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 9, 1 (1967) [9, 3 (1967)]
Effect of Thermal Vibrations on the Propagation of Chains of Atom-Atom Collisions in Crystals. (T) T. S. Pugacheva. 9, 75 (1967) [9, 102 (1967)]
Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Kopt'sik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]
Influence of Hydrostatic Pressure on the Electrical Properties of Single Crystals of the Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov, A. A. Averkin, and A. R. Regel'. 9, 99 (1967) [9, 134 (1967)]
Investigation of the Adsorption and Electron Emission of Cesium Films on a Tungsten Single Crystal. (E) V. I. Makukha. 9, 111 (1967) [9, 150 (1967)]
Analysis of Conditions for Phonon "Heating" in Paramagnetic Crystals. (E/T) V. A. Milyaev. 9, 117 (1967) [9, 157 (1967)]
A Theoretical Examination of Hyperfine Structure Splitting Matrix Shifts in Cu, Ag, and Au Atoms Stabilized in a Polar Matrix (H_2O). (T/E) R. A. Zhitnikov and N. V. Kolesnikov. 9, 121 (1967) [9, 162 (1967)]
A Condensation Method for Direct Observation of Dislocations. (E) V. M. Finkel', R. F. Sharafutdinov, and M. V. Shishkin. 9, 125 (1967) [9, 167 (1967)]
Ferromagnetic Resonance in Single Crystals of Bismuth–Calcium–Iron–Vanadium Garnet. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 134 (1967) [9, 179 (1967)]
Dynamics of Diatomic Crystals and Simple Layer Structures. (T) Ya. A. Iosilevskii. 9, 159 (1967) [9, 215 (1967)]
Coalescence of F Centers in Photochemically Colored NaCl and KCl Crystals Containing Anion Impurities. (E) N. A. Tsal', M. V. Pashkovskii, and R. I. Didyk. 9, 175 (1967) [9, 237 (1967)]
Photochemical Transformations of Radiophosphorus in Single Crystals of Potassium Chloride. (E) R. V. Bogdanov and A. N. Murin. 9, 180 (1967) [9, 243 (1967)]
Deformational Splitting of Luminescence Spectrum Lines and the Structures of Exchange-Linked Pairs of Chromium Ions in Ruby. (E/T) A. A. Kaplyanskii and A. K. Przhevuskii. 9, 190 (1967) [9, 257 (1967)]
Real Structure and Reaction Capability of Silicon Single Crystals. (E) G. I. Distler, S. A. Kobzareva, and V. S. Chudakov. 9, 200 (1967) [9, 269 (1967)]
Determination of the Internal Crystal Field in $BaTiO_3$ Using Paramagnetic Ions and the Particle Size Effect. (E) É. V. Bursian and V. V. Shapkin. 9, 211 (1967) [9, 283 (1967)]
Thermal Expansion of Naphthalene at Low Temperatures. (E) Yu. A. Kovalevskaya. 9, 258 (1967) [9, 344 (1967)]
Adsorption of Lithium on Faces of a Tungsten Single Crystal Covered with an Adsorbed Oxygen Film. (E) V. M. Gavriluyk and V. K. Medvedev. 9, 259 (1967) [9, 344 (1967)]
Theory of Surface Excitons in Molecular Crystals. (E) Yu. V. Konobeev. 9, 264 (1967) [9, 349 (1967)]
"Isostructural" Phase Transition in Naphthalene Crystals under the Action of Deformation. (E) V. A. Lisovenko and M. T. Shpak. 9, 271 (1967) [9, 356 (1967)]
Investigation of the Diffusion of Fluorine Atoms in a LaF_3 Single Crystal Using the Nuclear Resonance Method (E) A. G. Lundin, S. P. Gabuda, and A. I. Lifshits. 9, 273 (1967) [9, 357 (1967)]
Mean Free Path of Dislocations during the Formation of Slip Bands in LiF Crystals. (E) B. I. Smirnov. 9, 319 (1967) [9, 417 (1967)]
Determination of the Lifetime and Mobility of Nonequilibrium Holes in Cadmium Sulfide Single Crystals. (E) V. E. Lashkarev, V. K. Malyutenko, and V. A. Romanov. 9, 323 (1967) [9, 422 (1967)]
Characteristics of Impurity-Center Formation in CdF_2. (E) F. Z. Gil'manov, L. D. Livanova, and A. L. Stolov. 9, 326 (1967) [9, 427 (1967)]
Width of Paramagnetic Resonance Lines Due to Impurity Ions in Scheelite Single Crystals. (E/T) I. N. Kurkin and L. Ya. Shekun. 9, 339 (1967) [9, 444 (1967)]
The Photodielectric Effect in Compensated Germanium. (E) N. S. Kasperovich, B. M. Nikolaev, and Ya. A. Oksman. 9, 343 (1967) [9, 449 (1967)]
Experimental Determination of the Relationship between the Intracrystalline Electric Field Gradient at the Nucleus and the Elastic Deformation of the Lattice in the Cubic Crystals NaF, NaCl, and KCl. (E) V. L. Bogdanov and V. V. Lemanov. 9, 357 (1967) [9, 469 (1967)]
Microhardness of Deformed NaCl Crystals. (E) A. A. Shpunt and O. A. Nabutovskaya. 9, 387 (1967) [9, 507 (1967)]
Relaxation of Stresses in a Silicon Single Crystal. (E) I. V. Gridneva, Yu. V. Mil'man, V. G. Permyakov, and V. I. Trefilov. 9, 417 (1967) [9, 547 (1967)]
Ferroelectric Phase Transitions in Triglycine Sulfate at Pressures up to 10 kbars. (E) G. G. Leonidova, N. P. Netesova, and T. R. Volk. 9, 454 (1967) [9, 593 (1967)]
Cathodoluminescence of SiC Crystals of Various Modifications Containing Radiation Defects. (E) V. V. Makarov. 9, 457 (1967) [9, 596 (1967)]
Experimental Investigation of the Absorption of CsI and CsBr Single Crystals in the Wavelength Range 0.38–2 mm. (E) E. M. Dianov. 9, 464 (1967) [9, 604 (1967)]

Velocity of Longitudinal and Transverse Ultrasonic Waves in Polycrystalline Normal Hydrogen. (E/T) P. A. Bezuglyi and R. Kh. Minyafaev. 9, 480 (1967) [9, 624 (1967)]

Adsorption and Electron Emission of Potassium Films on Faces of a Tungsten Single Crystal. (E) A. P. Ovchinnikov. 9, 483 (1967) [9, 628 (1967)]

Temperature Dependence of the Emission of Electrons by Ion Bombardment of Alkali-Halide Single Crystals. (E) I. A. Abroyan, I. S. Aref'eva, and V. P. Lavrov. 9, 516 (1967) [9, 667 (1967)]

Trivalent Rare Earths in Single Crystals of Cerium Dioxide. Erbium and Ytterbium. (E) A. A. Antipin, Z. N. Zonn, V. A. Ioffe, A. N. Katyshev, and L. Ya. Shekun. 9, 521 (1967) [9, 671 (1967)]

Microhardness of Filamentary NaCl Crystals. (E) S. U. Gol'denberg and A. I. Bychkova. 9, 525 (1967) [9, 674 (1967)]

Temperature Dependence of the Elastic Modulus of RbI Crystals. (E) P. I. Antonov, B. K. Kardashev, and S. P. Nikanorov. 9, 527 (1967) [9, 676 (1967)]

Spatial Dispersion Effects in Gyrotropic Crystals. (E/T) V. A. Kizel', Yu. I. Krasilov, and V. N. Shamraev. 9, 571 (1967) [9, 728 (1967)]

Calculation of the Characteristic Temperature of Organic Crystals from Elastic Constants. (E) K. S. Aleksandrov, V. F. Teslenko, and B. D. Koreshkov. 9, 579 (1967) [9, 739 (1967)]

Investigation of the Moduli of Elasticity and Compressibility of Europium in the Temperature Range 70–295°K. (E) A. M. Burkhanov, N. P. Grazhdankina, and I. G. Fakidov. 9, 586 (1967) [9, 748 (1967)]

An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 588 (1967) [9, 751 (1967)]

Investigation of the Mechanism of Optical Damage of Lithium Fluoride Single Crystals. (E) N. V. Volkova, V. A. Likhachev, M. I. Stepanov, and L. M. Shestopalov. 9, 609 (1967) [9, 778 (1967)]

Internal-Stress Distribution for a Random Positioning of Dislocations. (T) B. M. Strunin. 9, 630 (1967) [9, 805 (1967)]

Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]

Detection of Precipitates in Silicon Following Boron Diffusion. (E) V. M. Al'tshuller and V. I. Pil'don. 9, 648 (1967) [9, 830 (1967)]

Utilization of a Laser to Measure the Lifetime of Excess Carriers in Gallium Arsenide Single Crystals. (E) A. V. Dudenkova and V. V. Nikitin. 9, 664 (1967) [9, 851 (1967)]

Effect of Traps on the Amplification of Ultrasound in Cadmium Sulfide. (E) S. G. Kalashnikov, A. I. Morozov, and B. A. Stankovskii. 9, 670 (1967) [9, 859 (1967)]

Acoustothermal Effects in Solids. (T) Yu. V. Gulyaev and É. M. Épshtein. 9, 674 (1967) [9, 864 (1967)]

Effect of Heat Treatment on the Structural Perfection of NaCl(Pb) Single Crystals Grown from Solution. (E) T. V. Kuskova, E. I. Raikhel's, I. V. Smushkov, and T. V. Tyutyunnikova. 9, 718 (1967) [9, 926 (1967)]

Electric Field Gradient at In^{115} and Sb^{121} Nuclei in an Elastically Deformed Crystal of InSb. (E) V. L. Bogdanov and V. V. Lemanov. 9, 720 (1967) [9, 928 (1967)]

Formation of Charged Regions in CdS by the Application of an Electric Field. (E) A. S. Gershun and B. L. Timan. 9, 727 (1967) [9, 935 (1967)]

Some Physical Processes in Rocksalt in Strong Electric Fields. (E) G. A. Vorob'ev and I. S. Pikalova. 9, 755 (1967) [9, 961 (1967)]

Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Berezhkova. 9, 783 (1967) [9, 997 (1967)]

Spiral Etch Pits in Germanium. (E) Yu. P. Khukhryanskii, M. I. Shchevelev, and B. N. Popovich. 9, 816 (1967) [9, 1042 (1967)]

Calculation of Tensor Quantities on Electronic Digital Computers. (T) I. I. Smyslov. 9, 820 (1967) [9, 1047 (1967)]

Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Makarov. 9, 828 (1967) [9, 1058 (1967)]

Magnitude of the Initial Splittings of Gadolinium Ions in Crystals of the Scheelite Series. (E/T) V. M. Vinokurov and V. G. Stepanov. 9, 844 (1967) [9, 1081 (1967)]

Magnetooptical Oscillations of Absorption in Germanium Crystals Free of Mechanical Stresses. (E) A. V. Varfolomeev, B. P. Zakharchenya, and R. P. Seisyan. 9, 847 (1967) [9, 1085 (1967)]

Determination of the Modulus of Elasticity of Whiskers by the Method of Flexural Vibrations. (E) A. A. Shpunt. 9, 878 (1967) [9, 1122 (1967)]

Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavriluk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]

NMR and Ferroelectric Properties of Sodium Hydroselenite Mixed Crystals. (E) G. V. Gavrilova-Podol'skaya, S. P. Gabuda, and A. G. Lundin. 9, 911 (1967) [9, 1166 (1967)]

Transfer of Plastic Deformation through Intergranular Boundaries in NaCl Bicrystals. (E) V. M. Finkel', Z. A. Maslovskaya, and V. V. Vakhonin. 9, 945 (1967) [9, 1213 (1967)]

Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]

Local Levels in a Hexagonal Selenium Single Crystal. (E) M. Ya. Bakirov and N. Z. Dzhalilov. 9, 968 (1967) [9, 1244 (1967)]

Thermal Conductivity in a Two-Dimensional Lattice. (T) I. V. Kirillova, I. L. Korobova, and B. Ya. Moizhes. 9, 1003 (1967) [9, 1281 (1967)]

Measurement of the Piezoelectric Moduli of Quartz and Lead Zirconate-Titanate Ceramic at Low Temperatures. (E) A. G. Beda. 9, 1043 (1967) [9, 1332 (1967)]

Low-Temperature Phase Transition in Tin Telluride. (E) S. I. Novikova and L. E. Shelimova. 9, 1046 (1967) [9, 1336 (1967)]

Amplification of High-Intensity Ultrasound in Cadmium Sulfide Single Crystals. (E) B. P. Vasil'ev and K. N. Vinogradov. 9, 1052 (1967) [9, 1345 (1967)]

Change in Electrical Resistivity in the α–Phase of Scandium Hydride. (E) Z. M. Azarkh, V. N. Funin, and N. D. Yur'eva. 9, 1066 (1967) [9, 1364 (1967)]

Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]

Frenkel' Effect in the Mutual Diffusion in Alkali-Halide Single Crystals (KCl–KBr System); (E) Ya. E. Geguzin and Yu. I. Boiko. 9, 1074 (1967) [9, 1375 (1967)]

Temperature Dependence of the Peierls Stress in InSb, Ge, and Si. (E) F. L. Édel'man, 9, 1103 (1967) [9, 1414 (1967)]

Change in the Nature of the Phase Transition in Barium Titanate Single Crystals under Hydrostatic Pressure. (E) I. N. Polandov, B. A. Strukov, and V. P. Mylov. 9, 1153 (1967) [9, 1477 (1967)]

Temperature Variation of the First Magnetic Anisotropy Constant in Lithium–Cobalt Ferrites. (E/T) M. A. Stel'mashenko. 9, 1137 (1967) [9, 1458 (1967)]

Thermal Expansion of Solidified Inert Gases. (E) V. G. Manzhelii, V. G. Gavrilko, and E. I. Voitovich. 9, 1157 (1967) [9, 1483 (1967)]

Change in Substructure of Lithium Fluoride Single Crystals during Isothermal Annealing. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 9, 1176 (1967) [9, 1505 (1967)]

Influence of the Deformation and Geometric Dimensions on the Thermal Conductivity of Sodium Chloride. (E) V. M. Zakharov. 9, 1183 (1967) [9, 1514 (1967)]

Vibrational Instability of Impurity Centers and Nonsymmetric Distortions of the Lattice. (T) N. N. Kristofel' and G. S. Zavt. 9, 1246 (1967) [9, 1583 (1967)]

Influence of the Crystal Field on Angular γ –γ–Correlation in Paramagnets. (T) F. P. Khaimovich. 9, 1261 (1967) [9, 1603 (1967)]

Influence of Thermal Oscillations on Electron Scattering in the Dynamical Theory Approximation. (T) L. B. Kvashnina, V. B. Molodkin, and E. A. Tikhonova. 9, 1306 (1967) [9, 1660 (1967)]

Dislocation Structure of LiF Crystals Deformed under Constant Stresses. (E/T) B. I. Smirnov and A. V. Borsenko. 9, 1377 (1967) [9, 1755 (1967)]

Effect of Localized States on the Damping of Elastic Waves in Crystals. (T) M. A. Ivanov and M. A. Krivoglaz. 9, 1388 (1967) [9, 1771 (1967)]

Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Beilin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Poddubyakov. 9, 1467 (1968) [9, 1861 (1967)]

Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. (E) S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov. 9, 1488 (1968) [9, 1887 (1967)]

Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. (T/E) K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 9, 1553 (1968) [9, 1974 (1967)]

Rotational Mobility of Crystallites in Oriented Kapron (Polycaprolactam). (E) V. S. Kuksenko, S. Nizamidinov, and A. I. Slutsker. 9, 1569 (1968) [9, 1996 (1967)]

Direct Observation of Screw Dislocations Perpendicular to the Surface of Single-Crystal Silicon. (E) L. N. Danil'chuk and V. I. Nikitenko. 9, 1592 (1968) [9, 2027 (1967)]

Mechanical Twinning in Indium Antimonide and Germanium. (E) F. L. Edel'man. 9, 1648 (1968) [9, 2103 (1967)]

Conditions for Ferromagnetic Resonance in Single-Crystal Films. (T/E) V. A. Ignatchenko and G. I. Rusov. 9, 1650 (1968) [9, 2105 (1967)]

Effect of Force Constant Changes on the Properties of Crystals Containing Impurity Atoms. (T) A. P. Zhernov and G. R. Augst. 9, 1724 (1968) [9, 2196 (1967)]

Neutron Diffraction Study of Atomic and Magnetic Structures of Calcium–Vanadium–Ferrite Garnet. (E) V. P. Plakhtii, G. P. Gordeev, A. A. Kuzina, and É. I. Turkevich. 9, 1762 (1968) [9, 2247 (1967)]

Temperature Dependence of the Magnetostriction Constants of Single-Crystals of Yttrium-Gallium Ferrites Measured by the Microwave Method. (E/T) G. A. Petrakovskii, É. M. Smokotin, and A. G. Titova. 9, 1820 (1968) [9, 2324 (1967)]

Generation of Dislocations on External and Internal Surfaces of Crystals. (T) L. G. Orlov. 9, 1836 (1968) [9, 2345 (1967)]

Influence of Hydrostatic Pressure on the Mechanism of Self-diffusion in Silver Chloride Single Crystals. (E) A. N. Murin, B. G. Lur'e, and I. V. Murin. 9, 1840 (1968) [9, 2350 (1967)]

Magnon-Phonon Interaction in Cubic Crystals. (T) V. S. Tumanov 9, 1854 (1968) [9, 2369 (1967)]

Statistics of Indirect Exchange in Calcium–Vanadium Garnets. (E) V. P. Plakhtii. 9, 1889 (1968) [9, 2416 (1967)]

Specific Heat and Permittivity of a Potassium Dideuterophosphate Crystal in the Vicinity of the Ferroelectric Curie Point. (E) B. A. Strukov, M. Amin, and A. S. Sonin. 9, 1894 (1968) [9, 2421 (1967)]

EPR of Mn^{2+} in $Cd(S_{1-x}Se_x)$ Single Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 9, 1912 (1968) [9, 2437 (1967)]

Self-Diffusion of Ca^{135} and I^{131} in Single Crystals and Polycrystalline Samples of Cesium Iodide. (E) S. M. Klotsman, I. P. Polikarpova, A. N. Timofeev, and I. Sh. Trakhtenberg. 9, 1956 (1968) [9, 2487 (1967)]

Temperature Dependence of Dislocation Mobility in KBr Single Crystals. (E/T) V. B. Partiiskii and A. I. Tret'yak. 9, 1933 (1968) [9, 2457 (1967)]

Adsorption and Electron Emission of Molybdenum Films on a Tungsten Single Crystal. (E) V. A. Kuznetsov and B. M. Tsarev. 9, 1987 (1968) [9, 2524 (1967)]

Mechanism and Kinetics of the Process of Sorption of Oxygen on the (111) Face of a Tungsten Single Crystal (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 1992 (1968) [9, 2529 (1967)]

Optical Elastic Limit of Lithium Fluoride Single Crystals in the Temperature Range 300–1.4°K. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 2008 (1968) [9, 2549 (1967)]

Emergence of Local Vibrations of Additive Molecular Ions in the Infrared Absorption Spectra of Alkali Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2037 (1968) [9, 2590 (1967)]

Plastic Deformation of Silicon in the Brittle Fracture Region. (E) V. I. Nikitenko, M. M. Myshlyaev, and V. G. Eremenko. 9, 2047 (1968) [9, 2604 (1967)]

Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]

The Interband Interaction and Spontaneous Polarization of a Crystal Lattice. (T) I. B. Bersuker and B. G. Vekhter. 9, 2084 (1968) [9, 2652 (1967)]

Linear Stark Effect in the U-Band of Ruby (E) A. A. Kaplyanskii and V. N. Medvedev. 9, 2121 (1968) [9, 2704 (1967)]

Influence of Domain Structure on the Ferromagnetic Resonance in an Iron–Yttrium Garnet Single Crystal. (E) V. I. Churkin and N. N. Cheliishchev. 9, 2154 (1968) [9, 2742 (1967)]

Formation of Excitons by Electrons in Thallium-Doped RbI Single Crystals. (E) Ch. B. Lushchik and T. I. Trofimova. 9, 2156 (1968) [9, 2744 (1967)]

Microspectrophotometric Investigation of the Thermal Stability of F Color Centers in NaCl, KCl, and KBr Crystals. (E) F. N. Zaitov and B. I. Sidlyarenko. 9, 2189 (1968) [9, 2785 (1967)]

Spontaneous Magnetostriction of the Compound $MnAu_2$. (E) V. A. Gordienko and V. I. Nikolaev. 9, 2216 (1968) [9, 2820 (1967)]

Defects in the Crystal Structure of Condensed Bismuth Films. (E) A. I. Fedorenko, L. S. Palatnik, and V. M. Kosevich. 9, 2238 (1968) [9, 2846 (1967)]

Dielectric Properties of Sb_2S_3 Crystals. (E) I. P. Grigas and A. S. Karpus. 9, 2265 (1968) [9, 2882 (1967)]

Absorption of Ultrasonic Waves in a Tellurium Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 9, 2290 (1968) [9, 2912 (1967)]

Pyroelectric Effect in Antimony Trisulfide Single Crystals. (E) V. S. Rinkyavichyus and M. P. Mikalkevichyus. 9, 2360 (1968) [9, 2997 (1967)]

Some Properties of the Pyrocurrent in SbSeI Single Crystals. (E) B. P. Grigas. 9, 2362 (1968) [9, 2998 (1967)]

Electron-Diffraction Investigation of the Structure of Thin Solid Argon Films. (E) S. I. Kovalenko and N. N. Bagrov. 9, 2396 (1968) [9, 3032 (1967)]

Explosive Deformation of Single Crystals. (E) L. V. Al'tshuler, M. I. Brazhnik, V. N. German, and L. I. Mirkin. 9, 2417 (1968) [9, 3063 (1967)]

Electric Domains in Corundum Plates and the Electric Effects Related to Formation of Laminar Filamentary Crystals. (E/T) V. N. Rozhanskii and G. V. Berezhkova. 9, 2465 (1968) [9, 3126 (1967)]

Ferrimagnetism of Hexagonal Ferrites. (E) T. M. Perekalina and V. P. Cheparin. 9, 2534 (1968) [9, 3205 (1967)]

Investigation of $\alpha \rightleftharpoons \beta$ Transition in GeTe–SnTe Alloys at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 9, 2527 (1968) [9, 3208 (1967)]

Vacancy Concentration Variation in KBr Crystals during Electrolytic Coloration (E) G. A. Andreev, G. B. Semushkin, and A. N. Tsikin. 9, 2564 (1968) [9, 3257 (1967)]

Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 2573 (1968) [9, 3270 (1967)]

Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]

Spontaneous Electrooptical Effect in Crystals of Lithium Niobate. (E) A. S. Sonin and L. G. Lomova. 9, 2607 (1968) [9, 3315 (1967)]

Contribution to the Theory of Dielectric Permeability of Rutile. (E) L. B. Meisner. 9, 2604 (1968) [9, 3311 (1967)]

Plastic Deformation of Ammonia Single Crystals. (E) A. I. Prokhvatilov. 9, 2610 (1968) [9, 3318 (1967)]

Electron Paramagnetic Resonance of Partially Reduced Rutile. (E) V. N. Bogomolov and L. S. Sochava. 9, 2647 (1968) [9, 3355 (1967)]
Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3369 (1967)]
Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ursulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]
Influence of Impurities on Polymorphic Transitions in Octahydroanthracene Crystals.(E) V. N. Vatulev and A. F. Prikhot'ko. 9, 2739 (1968) [9, 3475 (1967)]
Radiochemical Reduction of MeF_3–RF^{2+} Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 9, 2774 (1968) [9, 3523 (1967)]
A New Method for Precision Determination of Interplanar Spacings from Patterns Taken in a Divergent Beam of X Rays. (E/T) V. V. Lider and V. N. Rozhanskii. 9, 2787 (1968) [9, 3539 (1967)]
Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]
Some Characteristics of Parametric Excitation of Spin Waves in Ferrite Single Crystals. (E) E. V. Lebedeva and A. I. Pil'shchikov. 9, 2862 (1968) [9, 3630 (1967)]
Influence of Anion Vacancies on the Lattice Thermal Conductivity of Coordination Crystals Having the Spinel Structure at Low Temperature. (E) I. I. Vishnevskii and V. N. Skripak. 9, 2865 (1968) [9, 3633 (1967)]
Electron Paramagnetic Resonance of Cr^{2+} in $LaAlO_3$ Single Crystals. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Lushkov. 9, 2871 (1968) [9, 3639 (1967)]

DEFORMATION

Recovery of Plastically Deformed Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 167 (1967) [9, 227 (1967)]
"Isostructural" Phase Transition in Naphthalene Crystals under the Action of Deformation. (E) V. A. Lisovenko and M. T. Shpak. 9, 271 (1967) [9, 356 (1967)]
Creep of Solid Ammonia. (E) A. I. Prokhvatilov, T. V. Sil'vestrova, and D. N. Bol'shutkin. 9, 546 (1967) [9, 693 (1967)]
Experimental Determination of the Relationship between the Intracrystalline Electric Field Gradient at the Nucleus and the Elastic Deformation of the Lattice in the Cubic Crystals NaF, NaCl, and KCl. (E) V. L. Bogdanov and V. V. Lemanov. 9, 357 (1967) [9, 469 (1967)]
Microhardness of Deformed NaCl Crystals. (E) A. A. Shpunt and O. A. Nabutovskaya. 9, 387 (1967) [9, 507 (1967)]
Participation of Focused Collisions Caused by Irradiation in the Deformation of Metal Crystals. (E) O. A. Troitskii. 9, 498 (1967) [9, 647 (1967)]
Formation of Dislocation Structure during Deformation of Silicon-Iron Single Crystals. (E) V. G. Kurdyumov, L. M. Morgulis, and L. M. Utevskii. 9, 519 (1967) [9, 669 (1967)]
An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 588 (1967) [9, 751 (1967)]
Electric Field Gradient at In^{115} and Sb^{121} Nuclei in an Elastically Deformed Crystal of InSb. (E) V. L. Bogdanov and V. V. Lemanov. 9, 720 (1967) [9, 928 (1967)]
Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Bereshkova. 9, 783 (1967) [9, 997 (1967)]
Investigation of the Dislocation Structure of Silicon Deformed during the Easy Slip Stage. (E) Yu. V. Malov and V. N. Rozhanskii. 9, 805 (1967) [9, 1028 (1967)]
Radiation Annealing of Seeger's Depletion Zone. (T) V. M. Agranovich and É. Ya. Mikhlin. 9, 851 (1967) [9, 1089 (1967)]
Change in the Block Structure of Aluminum during Creep. (E) M. M. Myshlyaev. 9, 937 (1967) [9, 1203 (1967)]
Transfer of Plastic Deformation through Intergranular Boundaries in NaCl Bicrystals. (E) V. M. Finkel', Z. A. Maslovskaya, and V. V. Vakhonin. 9, 945 (1967) [9, 1213 (1967)]
Plastic Deformation of Germanium in an Electric Field. (T) T. A. Kontorova. 9, 961 (1967) [9, 1235 (1967)]
Optical Activity of Deformed Crystals. (T) V. S. L'vov. 9, 1000 (1967) [9, 1273 (1967)]
Influence of the Deformation and Geometric Dimensions on the Thermal Conductivity of Sodium Chloride. (E) V. M. Zakharov. 9, 1183 (1967) [9, 1514 (1967)]
Dislocation Structure of Deformation Rosettes Obtained on Sodium Chloride Single Crystals at T = 4.2°K. (E) O. V. Klyavin, A. V. Stepanov, and I. S. Kotousova. 9, 1283 (1967) [9, 1631 (1967)]
Changes in Dislocation Structures during Preparation of Foil Specimens for Electron Microscope Transmission Studies. (E) M. M. Myshlyaev. 9, 1312 (1967) [9, 1669 (1967)]
Dislocation Structure of LiF Crystals Deformed under Constant Stresses. (E/T) B. I. Smirnov and A. V. Borsenko. 9, 1377 (1967) [9, 1755 (1967)]
Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. (E) S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov. 9, 1488 (1968) [9, 1887 (1967)]
Effect of X-Ray Irradiation on Prehardened Regions of NaCl Single Crystals. (E) Yu. S. Boyarskaya and R. P. Zhitaru. 9, 1672 (1968) [9, 2129 (1967)]
Ultrasonic Relaxation near a Ferroelectric Phase Transition Point of the Second Kind in an Electric Field (T/E) S. Ya. Geguzina and B. L. Timan. 9, 1702 (1968) [9, 2167 (1967)]
Optical Determination of the Elastic Limit of Sodium Chloride Single Crystals in the Liquid-Helium Temperature Range. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 1720 (1968) [9, 2190 (1967)]
Magnetocrystalline Anisotropy of Hexagonal Ferrite Single Crystals of the System $Ba_4Co_2Zn_{2-x}Fe_{12}O_{22}$. (E) N. N. Agapova and T. M. Perekalina. 9, 1825 (1968) [9, 2330 (1967)]
The Deformation of Polycrystalline Iron within the Yield Plateau. (E) L. G. Orlov. 9, 1828 (1968) [9, 2334 (1967)]
Effect of Deformation by Ultrasound on the Photosensitivity of Silver Chloride Crystals. (E) O. P. Golovko, N. A. Tyapunina, and M. P. Shaskol'skaya. 9, 1887 (1968) [9, 2414 (1967)]
Mechanical Properties of Solid Para-Hydrogen at 4.2°K. (E) D. N. Bol'shutkin, Yu. E. Stetsenko, and Z. N. Limik. 9, 1952 (1968) [9, 2482 (1967)]
Plastic Deformation of Silicon in the Brittle Fracture Region. (E) V. I. Nikitenko, M. M. Myshlyaev, and V. G. Eremenko. 9, 2047 (1968) [9, 2604 (1967)]
Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Sazonov. 9, 2096 (1968) [9, 2670 (1967)]
Absorption of Ultrasound by Dislocations in Deformed KCl Crystals. (E) Kh. M. Khalilov and A. I. Agaev. 9, 2143 (1968) [9, 2729 (1967)]
Influence of Plastic Deformation on the Magnitude of the Mössbauer Effect. (E) V. S. Kortov, R. I. Mints, and Yu. N. Sekisov. 9, 2169 (1968) [9, 2755 (1967)]
Microspectrophotometric Investigation of the Thermal Stability of F Color Centers in NaCl, KCl, and KBr Crystals. (E) F. N. Zaitov and B. I. Sidiyarenko. 9, 2189 (1968) [9, 2785 (1967)]
Theoretical Analysis of the Interaction Energy of Interstitial Atoms in Connection with Elastic Deformations of the Crystal Lattice. (T) A. G. Khachaturyan. 9, 2249 (1968) [9, 2861 (1967)]
Interaction of Point Defects with Dislocations in High-Purity Quenched Aluminum. (E) I. A. Gindin, I. M. Neklyudov, and I. I. Bobonets. 9, 2333 (1968) [9, 2969 (1967)]
Explosive Deformation of Single Crystals. (E) L. V. Al'tshuler, M. I. Brazhnik, V. N. German, and L. I. Mirkin. 9, 2417 (1968) [9, 3063 (1967)]
Electron-Microscope Observation of Dislocation Motion in Silicon under the Influence of an Electron Beam. (E) M. M. Myshlyaev, V. I. Nikitenko, and V. G. Eremenko. 9, 2427 (1968) [9, 3077 (1967)]

Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 3573 (1968) [9, 3270 (1967)]
Plastic Deformation of Ammonia Single Crystals. (E) A. I. Prokhvatilov. 9, 2610 (1968) [9, 3318 (1967)]
Calculation of the Rate of Pore Growth at Grain Boundaries under the Action of Tensile Stresses. (T) B. Ya. Lyubov and V. A. Solov'ev. 9, 2675 (1968) [9, 3388 (1967)]
Piezoresistance Coefficients of n-Type α-SiC. (E) L. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

DIELECTRIC MATERIALS, PROPERTIES, AND EFFECTS

Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]
Microwave Dielectric Properties of Ferrite Spinels. (E) A. A. Samokhvalov, S. A. Ismailov, and A. A. Obukhov. 9, 688 (1967) [9, 884 (1967)]
Theory of the Acoustoelectric Effect in Dielectrics. (T) L. V. Ioffe. 9, 740 (1967) [9, 946 (1967)]
Interaction of Spin Waves and Polarons in a Ferromagnetic Dielectric. (T) É. G. Petrov. 9, 867 (1967) [9, 1109 (1967)]
Nature of Microwave Dielectric Losses in Glasses. (E) M. D. Mashkovich and É. N. Smelyanskaya. 9, 974 (1967) [9, 1249 (1967)]
Dielectric Films Produced by Reactive Sputtering. (E) Yu. A. Prokhorov, V. V. Shakmanov, L. B. Shelyakin, and V. E. Yurasova. 9, 1091 (1967) [9, 1398 (1967)]
Orientational Dielectric Polarization of a $PbNb_2O_6$ Type Ferroelectric from Reorientation of 180 and 90° Domains. (T) V. A. Isupov. 9, 1105 (1967) [9, 1417 (1967)]
Optical Effective Mass of Electrons in Metals. (T) Sh. M. Kogan. 9, 1180 (1967) [9, 1510 (1967)]
Theory of a Dielectric–Metal Contact. (T) B. L. Timan. 9, 1191 (1967) [9, 1521 (1967)]
Consideration of Partial Phonon Reflection from Boundaries in the Calculation of the Low-Temperature Thermal Conductivity of Dielectrics. (T) A. E. Kazakov and É. L. Nagaev. 9, 1255 (1967) [9, 1594 (1967)]
Influence of the Conductivity on the Elastic Stiffness of Hexagonal ZnS. (E) I. B. Kobyakov. 9, 1269 (1968) [9, 1613 (1967)]
Mechanism of Current Conduction in Thin-Film Metal-Dielectric-Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 1332 (1967) [9, 1695 (1967)]
Investigation of $Ba(TiSn)O_3$ Ferroelectric Ceramics at High Pressures. (E) I. N. Polandov and V. P. Mylov. 9, 1816 (1968) [9, 2319 (1967)]
Mechanism of Damage of Ruby by Laser Radiation. (E) É. A. Sviridenkov. 9, 1917 (1968) [9, 2442 (1967)]
Dielectric Polarization and Thermal Expansion of Polarized Ceramic Samples of the $PbTiO_3$–$PbZrO_3$–$PbMg_{1/3}W_{2/3}O_3$ System. (E) Yu. E. Stolypin and V. A. Isupov. 9, 2059 (1968) [9, 2619 (1967)]
Theory of the Interaction of Charged Particles with a Dielectric. (T) I. V. Ioffe. 9, 2161 (1968) [9, 2748 (1967)]
The Theory of Electrical Conductivity of Crystals Having Large Dielectric Constants. (T) I. V. Ioffe. 9, 2182 (1968) [9, 2775 (1967)]
Criteria of the Optical Strength of Transparent Dielectrics. (T/E) V. I. Vladimirov. 9, 2204 (1968) [9, 2804 (1967)]
Dielectric Resonance. (T) D. G. Sannikov. 9, 2244 (1968) [9, 2854 (1967)]
Dielectric Properties of Sb_2S_3 Crystals. (E) I. P. Grigas and A. S. Karpus. 9, 2265 (1968) [9, 2882 (1967)]
Two-Magnon Combination Scattering of Light in Magnetically Ordered Dielectrics. (T) V. S. L'vov. 9, 2328 (1968) [9, 2963 (1967)]
Changes in the Dielectric Properties of Triglycine Fluoroberylate under the Action of Hydrostatic Pressure. (E) V. P. Mylov, I. N. Polandov, and B. A. Strukov. 9, 2375 (1968) [9, 3012 (1967)]
Contribution to the Theory on Dielectric Permeability of Rutile. (E) L. B. Meisner. 9, 2604 (1968) [9, 3311 (1967)]
Analysis of the Hypothesis of Current Rise Due to Injection during Electrical Aging of Titanium-Bearing Dielectrics. (E) S. N. Kotkov, A. N. Tsikin, and A. Shakirov. 9, 2777 (1968) [9, 3527 (1967)]

DIFFUSION

Investigation of the Diffusion of Fluorine Atoms in a LaF_3 Single Crystal Using the Nuclear Resonance Method. (E) A. G. Lundin, S. P. Gabuda, and A. I. Lifshits. 9, 273 (1967) [9, 357 (1967)]
Temperature Dependence of the Isoconcentration Diffusion of Zinc in Gallium Arsenide. (E) R. Sh. Malkovich and G. K. Malysh. 9, 423 (1967) [9, 553 (1967)]
Diffusion and Electrotransport of Indium and Silver along Dislocations in Silicon. (E) V. A. Sterkhov, V. A. Panteleev, and P. V. Pavlov. 9, 533 (1967) [9, 681 (1967)]
Formation of Vacancies during Diffusion of Metal Atoms through a Surface Oxide Film and Influence of the Ambient Medium on the Dislocation Structure. (E) V. N. Rozhanskii, A. A. Predvoditelev, and V. L. Indenbom. 9, 593 (1967) [9, 757 (1967)]
Detection of Pricipitates in Silicon Following Boron Diffusion (E) V. M. Ai'tshuller and V. I. Pil'don. 9, 648 (1967) [9, 830 (1967)]
Radiation-Stimulated Diffusion in Cadmium Sulfide. (E) S. V. Starodubtsev, O. R. Niyazova, and M. A. Kaneev. 9, 679 (1967) [9, 872 (1967)]
Effect of Irradiation on the Diffusional-Dislocational Flow of Crystals. (T) A. M. Kosevich, Z. K. Saralidze, and V. V. Slezov. 9, 697 (1967) [9, 895 (1967)]
X-Ray Diffraction Investigation of Defects Generated in Silicon during Deep Diffusion of Phosphorus. (E) I. L. Shul'pina and É. K. Kov'ev. 9, 791 (1967) [9, 1008 (1967)]
Coalescence of a Supersaturated Solid Solution during Diffusion along Grain Boundaries or Dislocation Lines. (T) V. V. Slezov. 9, 937 (1967) [9, 1187 (1967)]
Motion of Na^+ in a Diffusion Zone of the NaCl–NaBr System. (E) Ya. E. Geguzin, V. I. Solunskii, and A. G. Shakhova. 9, 980 (1967) [9, 1254 (1967)]
Frenkel' Effect in the Mutual Diffusion in Alkali-Halide Single Crystals (KCl–KBr System). (E) Ya. E. Geguzin and Yu. I. Boiko. 9, 1074 (1967) [9, 1375 (1967)]
Diffusion and Electrolytic Migration of Cadmium Ions in Mixed $AgCl + CdCl_2$ Crystals. (E) B. G. Lur'e, A. N. Murin, and L. V. Murin. 9, 1337 (1967) [9, 1702 (1967)]
Changes in the Concentration of Gold in Silicon. R. Sh. Malkovich. 9, 1676 (1968) [9, 2132 (1967)]
Radiation-Stimulated Migration Processes in Solids. (T) A. E. Kiv and F. T. Umarova. 9, 1745 (1968) [9, 2225 (1967)]
Influence of Hydrostatic Pressure on the Mechanism of Self-diffusion in Silver Chloride Single Crystals. (E) A. N. Murin, B. G. Lur'e, and L. V. Murin. 9, 1840 (1968) [9, 2350 (1967)]
Microscopic Theory of Diffusion in Crystalline Solid Solutions and the Time Evolution of the Diffuse Scattering of X Rays and Thermal Neutrons. (T) A. G. Khachaturyan. 9, 2040 (1968) [9, 2594 (1967)]
Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]
Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]
Calculation of the Rate of Pore Growth at Grain Boundaries under the Action of Tensile Stresses. (T) B. Ya. Lyubov and V. A. Solov'ev. 9, 2675 (1968) [9, 3388 (1967)]
Stability of a Static Electric Inhomogeneity in a Semiconductor Possessing a Negative Differential Resistivity. (T) G. F. Karavaev. 9, 2836 (1968) [9, 3604 (1967)]

DISLOCATIONS

Block Boundaries in Sodium Chloride Single Crystals Grown from the Melt. (E) L. G. Éidel'man. 9, 9 (1967) [9, 13 (1967)]

A Condensation Method for Direct Observation of Dislocations. (E) V. M. Finkel', R. F. Sharafutdinov, and M. V. Shishkin. 9, 125 (1967) [9, 167 (1967)]
Recovery of Plastically Deformed Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 167 (1967) [9, 227 (1967)]
The Motion of Edge Dislocations at Low Stresses in Sodium Chloride Crystals. (E/T) A. A. Predvoditelev, N. K. Rakova, and Nang Hung-pin. 9, 224 (1967) [9, 300 (1967)]
Mean Free Path of Dislocations during the Formation of Slip Bands in LiF Crystals. (E) B. I. Smirnov. 9, 319 (1967) [9, 417 (1967)]
Friction Forces and Surface Tension of Twinning Dislocations. (E/T) V. S. Boiko, R. I. Garber, and L. F. Krivenko. 9, 332 (1967) [9, 435 (1967)]
Relaxation of Stresses in a Silicon Single Crystal. (E) I. V. Gridneva, Yu. V. Mil'man, V. G. Permyakov, and V. I. Trefilov. 9, 417 (1967) [9, 547 (1967)]
Self-diffusion of Germanium along "Intrinsic" Dislocations in an External Electric Field. (E) V. A. Sterkhov and P. V. Pavlov. 9, 495 (1967) [9, 643 (1967)]
Formation of Dislocation Structure during Deformation of Silicon Iron Single Crystals. (E) V. G. Kurdyumov, L. M. Morgulis, and L. M. Utevskii. 9, 519 (1967) [9, 669 (1967)]
Diffusion and Electrotransport of Indium and Silver along Dislocations in Silicon. (E) V. A. Sterkhov, V. A. Panteleev, and P. V. Pavlov. 9, 533 (1967) [9, 681 (1967)]
Formation of Vacancies during Diffusion of Metal Atoms through a Surface Oxide Film and Influence of the Ambient Medium on the Dislocation Structure. (E) V. N. Rozhanskii, A. A. Predvoditelev, and V. L. Indenbom. 9, 593 (1967) [9, 757 (1967)]
Internal-Stress Distribution for a Random Positioning of Dislocations. (T) B. M. Strunin. 9, 630 (1967) [9, 805 (1967)]
Theory of the Electrical Resistivity of Metals Arising from Dislocations. (T) V. Ya. Kravchenko. 9, 653 (1967) [9, 836 (1967)]
Effect of Irradiation on the Diffusional-Dislocational Flow of Crystals. (T) A. M. Kosevich, Z. K. Saralidze, and V. V. Slezov. 9, 697 (1967) [9, 895 (1967)]
X-Ray Diffraction Investigation of Defects Generated in Silicon during Deep Diffusion of Phosphorus. (E) I. L. Shul'pina and É. K. Kov'ev. 9, 791 (1967) [9, 1008 (1967)]
Investigation of the Dislocation Structure of Silicon Deformed during the Easy Slip Stage. (E) Yu. V. Malov and V. N. Rozhanskii. 9, 805 (1967) [9, 1028 (1967)]
Spiral Etch Pits in Germanium. (E) Yu. P. Khukhryanskii, M. I. Shchevelev, and B. N. Popovich. 9, 816 (1967) [9, 1042 (1967)]
Using Electrical Effects for Observing the Motion of Dislocations in Conducting Crystals. (T) V. Ya. Kravchenko. 9, 823 (1967) [9, 1050 (1967)]
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Erashov. 9, 854 (1967) [9, 1093 (1967)]
Interaction of Dislocations at Nodes and the Equilibrium of Dislocations. (T) V. L. Indenbom and G. N. Dubnova. 9, 915 (1967) [9, 1171 (1967)]
Coalescence of a Supersaturated Solid Solution during Diffusion along Grain Boundaries or Dislocation Lines (T) V. V. Slezov. 9, 927 (1967) [9, 1187 (1967)]
Change in the Block Structure of Aluminum during Creep. (E) M. M. Myshlyaev. 9, 937 (1967) [9, 1203 (1967)]
Change in Substructure of Lithium Fluoride Single Crystals during Isothermal Annealing. (E) E. I. Raikhel's, I. V. Smushkov, and V. M. Trembach. 9, 1176 (1967) [9, 1505 (1967)]
Thermal Conductivity of Potassium Chloride at Helium Temperatures. (E) V. M. Zakharov. 9, 1195 (1967) [9, 1536 (1967)]
Microspectrophotometric Investigation of the Thermal Stability of F Color Centers in NaCl, KCl, and KBr Crystals. (E) F. N. Zaĭtov and B. I. Sidlyarenko. 9, 2189 (1968) [9, 2785 (1967)]
Investigation of Some Dynamic Characteristics of Dislocations in Potassium Bromide Crystals by the Internal Friction Method. (E) V. Ya. Platkov, V. P. Efimenko, and V. I. Startsev. 9, 2200 (1968) [9, 2799 (1967)]
Defects in the Crystal Structure of Condensed Bismuth Films. (E) A. I. Fedorenko, L. S. Palatnik, and V. M. Kosevich. 9, 2238 (1968) [9, 2846 (1967)]
Absorption of Ultrasonic Waves in a Tellurium Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 9, 2290 (1968) [9, 2912 (1967)]
Interaction of Point Defects with Dislocations in High-Purity Quenched Aluminum. (E) I. A. Gindin, I. M. Neklyudov, and I. I. Bobonets. 9, 2335 (1968) [9, 2969 (1967)]
Temperature Dependence of Dislocation Mobility in KBr Single Crystals. (E/T) V. B. Pariiskii and A. I. Tret'yak. 9, 1933 (1968) [9, 2457 (1967)]
Self-Diffusion of Cs^{134} and I^{131} in Single Crystals and Polycrystalline Samples of Cesium Iodide. (E) S. M. Klotsman, I. P. Polikarpova, A. N. Timofeev, and I. Sh. Trakhtenberg. 9, 1956 (1968) [9, 2487 (1967)]
Plastic Deformation of Silicon in the Brittle Fracture Region. (E) V. I. Nikitenko, M. M. Myshlyaev, and V. G. Eremenko. 9, 2047 (1968) [9, 2604 (1967)]
Absorption of Ultrasound by Dislocations in Deformed KCl Crystals. (E) Kh. M. Khalilov and A. I. Agaev. 9, 2143 (1968) [9, 2729 (1967)]
Generation of Dislocations on External and Internal Surfaces of Crystals. (T) L. G. Orlov. 9, 1836 (1968) [9, 2345 (1967)]
The Deformation of Polycrystalline Iron within the Yield Plateau. (E) L. G. Orlov. 9, 1828 (1968) [9, 2334 (1967)]
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]
Direct Observation of Screw Dislocations Perpendicular to the Surface of Single-Crystal Silicon. (E) L. N. Danil'chuk and V. I. Nikitenko. 9, 1592 (1968) [9, 2027 (1967)]
Mechanical Twinning in Indium Antimonide and Germanium. (E) F. L. Édel'man. 9, 1648 (1968) [9, 2103 (1967)]
Dislocation Structure of Deformation Rosettes Obtained on Sodium Chloride Single Crystals at T = 4.2°K. (E) O. V. Klyavin, A. V. Stepanov, and I. S. Kotousova. 9, 1283 (1967) [9, 1631 (1967)]
Investigation of Defects Generated during the Heat Treatment of Oxygen-Bearing Silicon. (E) I. L. Shul'pina, L. V. Latner, M. G. Mil'vidskii, and E. P. Rashevskaya. 9, 1291 (1967) [9, 1641 (1967)]
Changes in Dislocation Structures during Preparation of Foil Specimens for Electron Microscope Transmission Studies. (E) M. M. Myshlyaev. 9, 1312 (1967) [9, 1669 (1967)]
Diffraction Contrast from γ'-Phase Precipitates Formed in the Late Stages of Decomposition of the Solid Solution Cu–2% Be. (E) L. M. Sorokin. 9, 1353 (1967) [9, 1723 (1967)]
Dislocation Structure of LiF Crystals Deformed under Constant Stresses. (E/T) B. I. Smirnov and A. V. Borsenko. 9, 1377 (1967) [9, 1755 (1967)]
Variation of Ultrasonic Absorption in Fast and Programmed Loading. (E/T) I. A. Gindin, I. M. Neklyudov, and V. B. Rabukhin. 9, 1410 (1967) [9, 1802 (1967)]
Relation between Dislocations and Microplasmas during Avalanche Breakdown of a p-n Junction in Si. (E) I. V. Grekhov, N. N. Kryukova, and A. I. Novikov. 9, 1439 (1967) [9, 1831 (1967)]
Electron-Microscope Observation of Dislocation Motion in Silicon under the Influence of an Electron Beam. (E) M. M. Myshlyaev, V. I. Nikitenko, and V. G. Eremenko. 9, 2427 (1968) [9, 3077 (1967)]
Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 2573 (1968) [9, 3270 (1967)]
Anisotropy of the Orientation of the Tracks of Uranium Fission Fragments in LiF Single Crystals. (E) Ya. E. Geguzin, I. G. Berzina, and I. V. Vorob'eva. 9, 2642 (1968) [9, 3350 (1967)]
Calculation of the Rate of Pore Growth at Grain Boundaries under the Action of Tensile Stresses. (T) B. Ya. Lyubov and V. A. Solov'ev. 9, 2675 (1968) [9, 3388 (1967)]
Elastic and Magnetic Fields around Dislocations in Ferromagnets. (T) A. M. Kosevich and É. P. Fel'dman. 9, 2696 (1968) [9, 3415 (1967)]

Coalescence of a System of Dislocation Loops and Pores in Materials Subjected to Irradiation. (T) V. V. Slezov. 2720 (1968) [9, 3448 (1967)]

ELASTICITY AND PLASTICITY

Experimental Determination of the Relationship between the Intracrystalline Electric Field Gradient at the Nucleus and the Elastic Deformation of the Lattice in the Cubic Crystals NaF, NaCl, and KCl. (E) V. L. Bogdanov and V. V. Lemanov. 9, 357 (1967) [9, 469 (1967)]

Microhardness of Filamentary NaCl Crystals. (E) S. U. Gol'denberg and A. I. Bychkova. 9, 525 (1967) [9, 674 (1967)]

Temperature Dependence of the Elastic Modulus of RbI Crystals. (E) P. I. Antonov, B. K. Kardashev, and S. P. Nikanorov. 9, 527 (1967) [9, 676 (1967)]

Calculation of the Characteristic Temperature of Organic Crystals from Elastic Constants. (E) K. S. Aleksandrov, V. F. Teslenko, and B. D. Koreshkov. 9, 579 (1967) [9, 739 (1967)]

Investigation of the Moduli of Elasticity and Compressibility of Europium in the Temperature Range 70-295°K. (E) A. M. Burkhanov, N. P. Grazhdankina, and I. G. Fakidov. 9, 586 (1967) [9, 748 (1967)]

An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 588 (1967) [9, 751 (1967)]

Electric Field Gradient at In^{115} and Sb^{121} Nuclei in an Elastically Deformed Crystal of InSb. (E) V. L. Bogdanov and V. V. Lemanov. 9, 720 (1967) [9, 928 (1967)]

Temperature Dependence of the Elastic Constants of Sodium Iodide. (E) B. K. Kardashev and S. P. Nikanorov. 9, 747 (1967) [9, 952 (1967)]

Plasticity of Zinc and Cadmium Whiskers. (E) M. V. Zakharova, A. A. Predvoditelev, V. N. Rozhanskii, and G. V. Bereshkova. 9, 783 (1967) [9, 997 (1967)]

Determination of the Modulus of Elasticity of Whiskers by the Method of Flexural Vibrations.(E) A. A. Shpunt. 9, 878 (1967) [9, 1122 (1967)]

Plastic Deformation of Germanium in an Electric Field.(T) T. A. Kontorova. 9, 961 (1967) [9, 1235 (1967)]

Influence of the Conductivity on the Elastic Stiffness of Hexagonal ZnS. (E) I. B. Kobyakov. 9, 1269 (1967) [9, 1613 (1967)]

Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. (T/E) A. E. Kadyshevich, V. M. Beilin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Podd'yakov. 9, 1467 (1968) [9, 1861 (1967)]

Investigation of Electrical and Elastic Properties of Hexagonal Zinc Sulfide in the Temperature Range 1.5-300°K. (E) I. B. Kobyakov and G. S. Pado. 9, 1707 (1968) [9, 2173 (1967)]

Optical Determination of the Elastic Limit of Sodium Chloride Single Crystals in the Liquid-Helium Temperature Range. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 1720 (1968) [9, 2190 (1967)]

Optical Elastic Limit of Lithium Fluoride Single Crystals in the Temperature Range 300-1.4°K. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 2008 (1968) [9, 2549 (1967)]

Influence of the Long-Range Dipole-Dipole Forces on the Attenuation and Velocity of Ultrasound in Ferroelectrics near the Second-Order Transition Point. (T) S. Ya. Geguzina and M. A. Krivoglaz. 9, 2441 (1968) [9, 3095 (1967)]

Plastic Deformation of Ammonia Single Crystals. (E) A. I. Prokhvatilov. 9, 2610 (1968) [9, 3318 (1967)]

Velocity of Sound and Elastic Properties of Normal Polycrystalline Deuterium. (E) P. A. Bezuglyi and R. Kh. Minvafaev. 9, 2854 (1968) [9, 3622 (1967)]

ELECTRICAL CONDUCTIVITY

Phonon Heating in Semiconductors in a High Electric Field and Its Effect on Electric Conductivity. (T) L. É. Gurevich and T. M. Gasymov. 9, 78 (1967) [9, 106 (1967)]

Electrical Properties of Rutile Containing Dissolved Niobium. (E) N. P. Bogoroditskii, V. Kristya, and Ya. I. Panova. 9, 187(1967) [9, 253 (1967)]

Effect of Programmed Loading on the Change in the Electrical Resistivity of Bismuth Single Crystals under Uniform Low-Temperature Compression Conditions. (E) R. I. Garber, I. A. Gindin, V. V. Kechin, A. I. Likhter, and I. M. Nekliyudov. 9, 432 (1967) [9, 564 (1967)]

Effect of Adsorption of Cs, Ba, Th, and Cu Atoms and of an Electric Field on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 501 (1967) [9, 651 (1967)]

Conductivity of Pure Calcium, Strontium, and Barium Fluorides. (E) V. A. Arkhangel'skaya, B. G. Mikheev, T. I. Nikitinskaya, and M. S. Tyutin. 9, 539 (1967) [9, 687 (1967)]

Detection of Cyclotron Resonance from Changes in the Static Conductivity. (E) E. M. Gershenzon, Yu. A. Gurvich, N. G. Ptitsyna, and S. L. Orlova. 9, 543 (1967) [9, 691 (1967)]

Theory of Transport Phenomena in Conductors in a Strong Magnetic Field. (T) S. V. Peletminskii and D. D. Tskhakaya. 9, 619 (1967) [9, 790 (1967)]

Theory of the Electrical Resistivity of Metals Arising from Dislocations. (T) V. Ya. Kravchenko. 9, 653 (1967) [9, 836 (1967)]

Microwave Dielectric Properties of Ferrite Spinels. (E) A. A. Samokhvalov, S. A. Ismailov, and A. A. Obukhov. 9, 688 (1967) [9, 884 (1967)]

Hall Effect and Electrical Resistivity of Vanadium at 20-300°K. (E) E. B. Amitin, Yu. A. Kovalevskaya, and Yu. Z. Kovdrya. 9, 704 (1967) [9, 905 (1967)]

Theory of Electrical Conductivity of a Many-Valley Semiconductor in a Strong Electric Field. (T) S. V. Gantsevich. 9, 707 (1967) [9, 909 (1967)]

Conductivity of Thin Indium Oxide Films. (E) V. F. Korzo and L. A. Ryabova. 9, 745 (1967) [9, 950 (1967)]

Characteristics of the Electric Pinch Effect in Many-Valley Bipolar Semiconductors. (T/E) Z. S. Gribnikov and É. I. Rashba. 9, 760 (1967) [9, 967 (1967)]

Using Electrical Effects for Observing the Motion of Dislocations in Conducting Crystals. (T) V. Ya. Kravchenko. 9, 823 (1967) [9, 1050 (1967)]

Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Makarov. 9, 828 (1967) [9, 1058 (1967)]

Theory of Kinetic Phenomena in Semiconductors Having a Small Mobility. (T) A. L. Éfros. 9, 901 (1967) [9, 1152 (1967)]

Change in Electrical Resistivity in the α-Phase of Scandium Hydride. (E) Z. M. Azarkh, V. N. Funin, and N. D. Yur'eva. 9, 1066 (1967) [9, 1364 (1967)]

Mobility of Holes in Films of Organic Polymer Semiconductors. (E) A. V. Vannikov. 9, 1068 (1967) [9, 1367 (1967)]

Electrical Conductivity of Nickel Close to the Curie Point. (E) Ya. A. Kraftmakher. 9, 1199 (1967) [9, 1529 (1967)]

Measurement of the Electrical Resistance of Bismuth during Programmed Loading. (E) R. I. Garber, I. A. Gindin, and I. M. Nekiyudov. 9, 1224 (1967) [9, 1554 (1967)]

Influence of the Conductivity on the Elastic Stiffness of Hexagonal ZnS. (E) I. B. Kobyakov. 9, 1269 (1967) [9, 1613 (1967)]

Mechanism of Current Conduction in Thin-Film Metal-Dielectric-Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 1332 (1967) [9, 1695 (1967)]

Magnetic Properties of Crystals with Negative Differential Conductivity. (E) L. I. Trusov. 9, 1413 (1967) [9, 1805 (1967)]

Electrical Conductivity and Magnetic Susceptibility of Oxide Semiconductors Based on Vanadium Oxides. (E) A. Yu. Kudzin and I. M. Chernenko. 9, 1430 (1967) [9, 1822 (1967)]

Electrical Conductivity of Iron near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. 9, 1459 (1967)[9, 1851 (1967)]

Structure of the Electronic Energy Spectrum in Nonpolar Liquids. (T) R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko. 9, 1578 (1968) [9, 2007 (1967)]

Electrical Conductivity of Ca, Sr, and Ba Fluorides Containing Tb^{3+} Impurity. (E) T. I. Nikitinskaya, E. V. Suntsov, and M. S. Tyutin. 9, 1656 (1968) [9, 2111 (1967)]
Influence of Oxygen Impurity on the Conductivity of Lithium Fluoride. (E) Yu. B. Vladimirskii, T. I. Nikitinskaya, and P. A. Tsirul'nik. 9, 1666 (1968) [9, 2122 (1967)]
Theory of Sound and Drift Waves in Crystals Having a Large Dielectric Constant. (T) Yu. A. Kukharyi and V. N. Piskovoi. 9, 1737 (1968) [9, 2215 (1967)]
Use of a Comparison Method in Measurement of the Acoustoelectric emf. (E) L. V. Selivanov and Yu. E. Nevskii. 9, 1783 (1968) 9, 2274 (1967)]
Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]
Forbidden-Band Width of PbSe at High Temperatures. (E) E. D. Devyatkova and V. A. Saakyan. 9, 2163 (1968) [9, 2750 (1967)]
The Theory of Electrical Conductivity of Crystals Having Large Dielectric Constants. (T) I. V. Ioffe. 9, 2182 (1968) [9, 2775 (1967)]
Nonlinear Relationship between Current and Electric Field under Shubnikov-de Haas Effect Conditions (T) V. M. Nabutovskii. 9, 2632 (1968) [9, 3342 (1967)]
Correction to the Paper of I. B. Kobyakov "Influence of the Conductivity of the Elastic Stiffness of Hexagonal ZnS" (Soviet Physics—Solid State, Vol. 9, No. 6, pp. 1269-1271). (E) I. B. Kobyakov. 9, 2641 (1968) [9, 3350 (1967)]
Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3369 (1967)]
Quantum Theory of the Hall Effect in Semimetals Having an Equal Number of Electrons and Holes. (T) A. L. Éfros. 9, 2725 (1968) [9, 3456 (1967)]
Application of Schwinger's Variational Principle to the Calculation of Kinetic Coefficients. (T) P. A. Kazlauskas and I. B. Levinson. 9, 2780 (1968) [9, 3504 (1967)]
Influence of the Adsorption of Oxygen on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 2782 (1968) [9, 3533 (1967)]
Electrical Conductivity and Thermoelectric Power of Molten Ag_2S Containing Excess Sulfur. (E) I. N. Vechko, A. V. Ditman, and A. R. Regel'. 9, 2902 (1968) [9, 3669 (1967)]

ELECTRICAL PROPERTIES AND EFFECTS

Theory of Impact Ionization in Ionic Semiconductors. (T) V. A. Chuenkov. 9, 35 (1967) [9, 48 (1967)]
Phonon Heating in Semiconductors in a High Electric Field and Its Effect on Electric Conductivity. (T) L. É. Gurevich and T. M. Gasymov. 9, 78 (1967) [9, 106 (1967)]
Influence of Hydrostatic Pressure on the Electrical Properties of Single Crystals of the Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov, A. A. Averkin, and A. R. Regel'. 9, 99 (1967) [9, 134 (1967)]
Electrical Properties of Rutile Containing Dissolved Niobium.(E) N. P. Bogoroditskii, V. Kristya, and Ya. I. Panova. 9, 187 (1967) [9, 253 (1967)]
Comment on the Paper "Motion of Electrical Domains in Semiconductors Containing Hot Electrons." (R) V. L. Bonch-Bruevich. 9, 270 (1967) [9, 355 (196
Experimental Determination of the Relationship between the Intracrystalline Electric Field Gradient at the Nucleus and the Elastic Deformation of the Lattice in the Cubic Crystals NaF, NaCl, and KCl. (E) V. L. Bogdanov and V. V. Lemanov. 9, 357 (1967) [9, 469 (1967)]
Decomposition of a Solid Solution of Gold in Silicon. (E) Yu. I. Kozlov and R. Sh. Malkovich. 9, 384 (1967) [9, 504 (1967)]
Effect of Programmed Loading on the Change in the Electrical Resistivity of Bismuth Single Crystals under Uniform Low-Temperature Compression Conditions. (E) R. I. Garber, I. A. Gindin, V. V. Kechin, A. I. Likhter, and I. M. Nekiyudov. 9, 432 (1967) [9, 564 (1967)]
Self-diffusion of Germanium along "Intrinsic" Dislocations in an External Electric Field. (E) V. A. Sterkhov and P. V. Pavlov. 9, 495 (1967) [9, 643 (1967)]
Effect of Adsorption of Cs, Ba, Th, and Cu Atoms and of an Electric Field on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 501 (1967) [9, 651 (1967)]
Drift Mobility of Carriers in Nickel Oxide. (E) V. V. Makarov, Ya. M. Ksendzov, and V. I. Krugiov. 9, 512 (1967) [9, 663 (1967)]
Influence of an Electrostatic Field on the Temperature Dependence of the Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, O. L.Mikhailova, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 531 (1967) [9, 679 (1967)]
Some Integral Relationships between $\sigma_{xx}(H_z)$ and $\sigma_{xy}(H_z)$ for Bismuth-Type Metals. (T) Yu. A. Pospelov. 9, 451 (1967) [9, 589 (1967)]
Quantum Theory of Space Charge Capacitance. (T) N. V. Fomin. 9, 474 (1967) [9, 616 (1967)]
Carrier Mobility and Density in Uniaxially Compressed Silicon and p-Type Germanium at Low Temperatures. (E) I. V. Kucherenko. (E) 9, 614 (1967) [9, 784 (1967)]
Theory of Electrical Conductivity of a Many-Valley Semiconductor in a Strong Electric Field. (T) S. V. Gantsevich. 9, 707 (1967) [9, 909 (1967)]
Formation of Charged Regions in CdS by the Application of an Electric Field. (E) A. S. Gershun and B. L. Timan. 9, 727 (1967) [9, 935 (1967)]
Some Physical Processes in Rocksalt in Strong Electric Fields. (E) G. A. Vorob'ev and I. S. Pikalova. 9, 755 (1967) [9, 961 (1967)]
Characteristics of the Electric Pinch Effect in Many-Valley Bipolar Semiconductors. (T/E) Z. S. Gribnikov and É. I. Rashba. 9, 760 (1967) [9, 967 (1967)]
Using Electrical Effects for Observing the Motion of Dislocations in Conducting Crystals. (T) V. Ya. Kravchenko. 9, 823(1967)[9, 1050(1967)]
Plastic Deformation of Germanium in an Electric Field. (T) T. A. Kontorova. 9, 961 (1967) [9, 1235 (1967)]
Heating of Carriers in Thin Samples of Germanium. (E) S. P. Kal'venas and Yu. K. Pozhela. 9, 997 (1967) [9, 1270 (1967)]
Measurement of the Piezoelectric Moduli of Quartz and Lead Zirconate-Titanate Ceramic at Low Temperatures (E) A. G. Beda. 9, 1043 (1967) [9, 1332 (1967)]
Orientational Dielectric Polarization of a $PbNb_2O_6$ Type Ferroelectric from Reorientation of 180 and 90° Domains. (T) V. A. Isupov. 9, 1105 (1967) [9, 1417 (1967)]
Motion of Liquid-Lithium Inclusions in LiF Single Crystals in an External Electric Field. (T/E) Ya. E. Geguzin, S. S. Simeonov, and É. A. Élvasov. 9, 1123 (1967) [9, 1440 (1967)]
Optical Absorption by SbSI Crystals in the Presence of an Electric Field. (E) Yu. V. Shaldin and V. A. Lyakhovitskaya. 9, 1212 (1967) [9, 1541 (1967)]
Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinnik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1967) [9, 1557 (1967)]
Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Ashin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]
Photoemission from a NaCl Crystal Stimulated by an Electric Discharge. (E/T) D. M. Mambetov and V. F. Resnyanskii. 9, 1417 (1967) [9, 1808 (1967)]
Electron-Phonon Interaction Proportional to the Externally Applied Field. (T) Yu. V. Gulyaev. 9, 1425 (1967) [9, 1816 (1967)]
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]
Electrooptical Properties of Triglycine Sulfate. (E) A. S. Sonin and A. S. Vasilevskaya. 9, 1536 (1968) [9, 1951 (1967)]
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]

Effect of an External Electric Field on the Absorption of Sound in a Dielectric. (T) I. V. Ioffe and B. I. Shklovskii. 9, 1660 (1968) [9, 2116 (1967)]

Ultrasonic Relaxation near a Ferroelectric Phase Transition Point of the Second Kind in an Electric Field. (T/E) S. Ya. Geguzina and B. L. Timan. 9, 1702 (1968) [9, 2167 (1967)]

Investigation of Electrical and Elastic Properties of Hexagonal Zinc Sulfide in the Temperature Range 1.5–300°K. (E) I. B. Kobyakov and G. S. Pado. 9, 1707 (1968) [9, 2173 (1967)]

Theory of Sound and Drift Waves in Crystals Having a Large Dielectric Constant. (T) Yu. A. Kukibnyi and V. N. Piskovoi. 9, 1737 (1968) [9, 2215 (1967)]

Exciton-Phonon Interaction in One-Dimensional Molecular Crystals. (T) A. S. Davydov and B. M. Nitsovich. 9, 1749 (1968) [9, 2230 (1967)]

Electrical Fluctuations in a Solid-State Plasma in a Strong Electric Field. (T) Sh. M. Kogan and A. Ya. Shul'man. 9, 1771 (1968) [9, 2259 (1967)]

Pyroelectric Effect in SbSeI Single Crystals. (E) B. P. Grigas. 9, 1903 (1968) [9, 2430 (1967)]

Experimental Investigation of the Influence of an External Field on the EPR Spectrum of Cr^{3+} Ions in Corundum. (E) V. I. Nepsha, Yu. A. Sherstkov, A. D. Gorlov, and A. A. Shchetkov. 9, 1907 (1968) [9, 2433 (1967)]

Low-Frequency Electrical Oscillations in Barium Titanate. (E) V. A. Servuli, E. V. Zarochentsev, and O. I. Prokopalo. 9, 1919 (1968) [9, 2444 (1967)]

Electrical Effects in the EPR of Cu^{2+} in $CdWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 1926 (1968) [9, 2450 (1967)]

Longitudinal Relaxation of Electric Dipoles in Crystals. (T) R. V. Saburova. 9, 1949 (1968) [9, 2478 (1967)]

Dielectric Polarization and Thermal Expansion of Polarized Ceramic Samples of the $PbTiO_3$–$PbZrO_3$–$PbMg_{0.5}W_{0.5}O_3$ System. (E) Yu. E. Stolypin and V. A. Isupov. 9, 2059 (1968) [9, 2619 (1967)]

Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2064 (1968) [9, 2625 (1967)]

The Interband Interaction and Spontaneous Polarization of a Crystal Lattice. (T) I. B. Bersuker and B. G. Vekhter. 9, 2084 (1968) [9, 2652 (1967)]

Linear Stark Effect in the U-Band of Ruby. (E) A. A. Kaplyanskii and V. N. Medvedev. 9, 2121 (1968) [9, 2704 (1967)]

Electrical Resistance of Chromium near the Néel Point. (E) E. B. Amitin and Yu. A. Kovalevskaya. 9, 2145 (1968) [9, 2731 (1967)]

Electric Strength of Al_2O_3 Films. (E) V. F. Korzo. 9, 2167 (1968) [9, 2753 (1967)]

Dielectric Resonance. (T) D. G. Sannikov. 9, 2344 (1968) [9, 2854 (1967)]

Investigation of the Anomalous Dispersion of the Permittivity of Sb_2S_3 and SbSI Crystals at Microwave Frequencies. (E) I. P. Grigas and A. S. Karpus. 9, 2270 (1968) [9, 2887 (1967)]

A Comparison of Fundamental Theories on Polarization of Ionic Crystals. (T) S. N. Koikov. 9, 2292 (1968) [9, 2915 (1967)]

Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]

The Pinch Effect in Intrinsic Semiconductors. (T) I. I. Boiko. 9, 2303 (1968) [9, 2929 (1967)]

Pyroelectric Effect in Antimony Trisulfide Single Crystals. (E) V. S. Rinkyavichyus and M. P. Mikalkevichyus. 9, 2360 (1968) [9, 2997 (1967)]

Some Properties of the Pyrocurrent in SbSeI Single Crystals. (E) B. P. Grigas. 9, 2362 (1968) [9, 2998 (1967)]

Space Symmetry and Induced Polarization. (T) A. S. Sonin. 9, 2371 (1968) [9, 3008 (1967)]

Anomalous Decrease of the Electrical Resistivity of Metallic Chromium Due to Alloying with Vanadium and Titanium. (E) M. V. Vedernikov. 9, 2381 (1968) [9, 3018 (1967)]

The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Rozhanskii. 9, 2448 (1968) [9, 3104 (1967)]

Electric Domains in Corundum Plates and the Electric Effects Related to Formation of Laminar Filamentary Crystals. (E/T) V. N. Rozhanskii and G. V. Berezhkova. 9, 2465 (1968) [9, 3126 (1967)]

Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3196 (1967)]

Excess Current in Tunnel Diodes. (E) B. M. Vul, E. I. Zavaritskaya, and N. V. Zavaritskii. 9, 2530 (1968) [9, 3212 (1967)]

Field Effect in Bismuth. (E/T) Yu. F. Ogrin, V. N. Lutskii, and M. I. Elinson. 9, 2547 (1968) [9, 3234 (1967)]

Vacancy Concentration Variation in KBr Crystals during Electrolytic Coloration. (E) G. A. Andreev, G. B. Semushkin, and A. N. Tsikin. 9, 2564 (1968) [9, 3257 (1967)]

Theory of the Acoustoelectric Effect. (T) V. D. Kagan. 9, 2591 (1968) [9, 3293 (1967)]

Investigation of Antiferroelectrics at Millimeter Wavelengths. (E) Yu. M. Poplavko and V. G. Tsykalov. 9, 2600 (1968) [9, 3305 (1967)]

Spontaneous Electrooptical Effect in Crystals of Lithium Niobate. (E) A. S. Sonin and L. G. Lomova. 9, 2607 (1968) [9, 3315 (1967)]

A Nonlinear Effect in Piezoelectric Semiconductors. (E) A. A. Chaban. 9, 2622 (1968) [9, 3334 (1967)]

Polarization Discontinuities in Ferroelectric SbSI Caused by Illumination. (E) V. M. Rudyak and A. A. Bogomolov. 9, 2624 (1968) [9, 3336 (1967)]

Crystallization of Levitating Metals. (E) A. A. Fogel', T. A. Sidorova, Z. A. Guts, and M. M. Mezdrogina. 9, 2636 (1968) [9, 3346 (1967)]

Correction to the Paper of I. B. Kobyakov "Influence of the Conductivity of the Elastic Stiffness of Hexagonal ZnS" (Soviet Physics—Solid State, Vol. 9, No. 6, pp. 1269-1271). (E) I. B. Kobyakov. 9, 2641 (1968) [9, 3350 (1967)]

Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3369 (1967)]

EPR Line Shape and Acoustic Magnetic Resonance of Cr^{3+} in Al_2O_3 in the Presence of an Electric Field. (T) U. Kh. Kopvillem and B. P. Smolyakov. 9, 2664 (1968) [9, 3375 (1967)]

Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ursulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]

Thermal EMF of a Semiconductor in a Strong Electric Field. (T) L. É. Gurevich and T. M. Gasymov. 9, 2752 (1968) [9, 3493 (1967)]

Application of Schwinger's Variational Principle to the Calculation of Kinetic Coefficients. (T) P. A. Kazlauskas and I. B. Levinson. 9, 2760 (1968) [9, 3504 (1967)]

Analysis of the Hypothesis of Current Rise Due to Injection during Electrical Aging of Titanium-Bearing Dielectrics. (E) S. N. Koikov, A. N. Tsikin, and A. Shakirov. 9, 2777 (1968) [9, 3527 (1967)]

Piezoresistance Coefficients of n-Type α-SiC. (E) I. V. Rapatskaya, G. E. Rudashevskii, M. G. Kasaganova, M. I. Iglitsin, M. B. Reifman, and E. F. Fedotova. 9, 2833 (1968) [9, 3600 (1967)]

Stability of a Static Electric Inhomogeneity in a Semiconductor Possessing a Negative Differential Resistivity. (T) G. F. Karavaev. 9, 2836 (1968) [9, 3604 (1967)]

Pyroelectric Effect and Spontaneous Polarization in $LiTaO_3$. (E) M. B. Roitberg, Z. I. Shapiro, and A. Z. Rabinovich. 9, 2843 (1968) [9, 3613 (1967)]

Hole Injection in Anthracene from an Electrolyte and Space-Charge Limitation of Current. (E) V. Yu. Litvinenko and V. M. Fridkin. 9, 2845 (1968) [9, 3615 (1967)]

Faraday Effect Mechanisms in Ferrimagnets. (E) M. V. Chetkin, I. G. Morozova, and G. K. Tyutneva. 9, 2852 (1968) [9, 3621 (1967)]

Some Characteristics of Parametric Excitation of Spin Waves in Ferrite Single Crystals. (E) E. V. Lebedeva and A. I. Pil'shchikov. 9, 2862 (1968) [9, 3630 (1967)]
Measurement Feasibility of the Third Crystal-Field Constant of Cr^{3+} Ions in $ZnWO_4$-Type Crystals. (E) A. B. Roitsin. 9, 2891 (1968) [9, 3659 (1967)]
Current Instability in Thin-Film Metal-Dielectric-Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 2905 (1968) [9, 3672 (1967)]
Conditions for Forming an Acoustoelectric Domain during Amplification of Thermal Noise in Piezoelectric Semiconductors. (T) B. L. Timan. 9, 2908 (1968) [9, 3675 (1967)]

ELECTROLUMINESCENCE

Experimental Investigations of the Electroluminescence Effect in CdTe p-n Junctions. (E) G. P. Naumov. 9, 46 (1967) [9, 64 (1967)]
Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhulyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Nimm, E. L. Protnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]
Investigation of the Electroluminescence of p-n Junctions in Indium Arsenide. (E) N. P. Esina, N. V. Zotova, and D. N. Nasledov. 9, 1036 (1967) [9, 1334 (1967)]
Voltage Dependence of the Electroluminescence Brightness. (E) A. M. Bonch-Bruevich and A. V. Burlakov. 9, 1446 (1967) [9, 1838 (1967)]
Investigation of Transport Effects in Electrophotoluminescence. (E) A. V. Burlakov. 9, 1449 (1967) [9, 1840 (1967)]
Migration of Excitons in Uranyl Salts. (E) A. P. Abramov, I. N. Abramova, and N. A. Tolstoi. 9, 1516 (1968) [9, 1923 (1967)]
Crystal Field Parameters of Trigonal Er^{3+} Centers in CaF_2 Crystals. (E/T) G. M. Zverev and A. I. Smirnov. 9, 1586 (1968) [9, 2019 (1967)]
Electroluminescence Transport Equations and the Investigation of These Equations Using a Two-Stage Model. (T) E. Yu. L'vova. 9, 2068 (1968) [9, 2630 (1967)]
Formation of Excitons by Electrons in Thallium-Doped RbI Single Crystals. (E) Ch. B. Lushchik and T. I. Trofimova. 9, 2156 (1968) [9, 2744 (1967)]
Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]
Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 2769 (1968) [9, 3516 (1967)]

ELECTRON EMISSION AND ABSORPTION

Investigation of the Adsorption and Electron Emission of Cesium Films on a Tungsten Single Crystal. (E) V. I. Makukha. 9, 111 (1967) [9, 150 (1967)]
Theory of Absorption and Emission of Light by an Impurity in Ferromagnetic and Antiferromagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 349 (1967) [9, 457 (1967)]
Experimental Investigation of the Absorption of CsI and CsBr Single Crystals in the Wavelength Range 0.38–2 mm. (E) E. M. Dianov. 9, 464 (1967) [9, 604 (1967)]
Adsorption and Electron Emission of Potassium Films on Faces of a Tungsten Single Crystal. (E) A. P. Ovchinnikov. 9, 483 (1967) [9, 628 (1967)]
Temperature Dependence of the Emission of Electrons by Ion Bombardment of Alkali-Halide Single Crystals. (E) I. A. Abroyan, I. S. Arefʼeva, and V. P. Lavrov. 9, 516 (1967) [9, 667 (1967)]
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. S. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashtakov, and E. I. Tsarapaeva. 9, 657 (1967) [9, 842 (1967)]
Secondary Electron Emission of Aluminum and Nickel for Obliquely Incident Primary Electrons. (E) I. M. Bronshtein and S. S. Denisov. 9, 731 (1967) [9, 938 (1967)]
Study of X-Ray K Spectra of Titanium in Its Nitride and Carbide. (E) V. I. Chirkov, S. M. Blokhin, and É. E. Vainshtein. 9, 873 (1967) [9, 1116 (1967)]
Investigation of the Field Emission of Electrons from Germanium. (E) V. G. Ivanov, G. N. Fursei, and I. L. Sokol'skaya. 9, 895 (1967) [9, 1144 (1967)]
Photoemission from Additively Colored KCl Crystals. (E) A. N. Arsen'eva-Geli', A. D. Kashkai, and B. A. Kazenov. 9, 995 (1967) [9, 1269 (1967)]
Magnetic Lag and Dynamic High-Frequency Absorption in Ferrite. (E/T) L. B. Rozenbaum. 9, 1013 (1967) [9, 1294 (1967)]
Investigation of the Electroluminescence of p-n Junctions in Indium Arsenide. (E) N. P. Esina, N. V. Zotova, and D. N. Nasledov. 9, 1036 (1967) [9, 1324 (1967)]
Light Absorption by Free Current Carriers in a Semiconductor Placed in a Quantizing Magnetic Field. (T) I. A. Polufktov and Yu. M. Popov. 9, 1079 (1967) [9, 1382 (1967)]
Discrete Absorption by 4d Electrons in the Lanthanum Group Rare-Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]
Absorption of Light in the Presence of Polarons. (T) E. M. Kuznetsova. 9, 1166 (1967) [9, 1493 (1967)]
The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Perysbkin, E. I. Rzhekhina, and V. S. Shpinel'. 9, 1189 (1967) [9, 1519 (1967)]
Optical Absorption by SbSI Crystals in the Presence of an Electric Field. (E) Yu. V. Shaldin and V. A. Lyakhovitskaya. 9, 1212 (1967) [9, 1541 (1967)]
Corrections to the Paper "Contribution of Transfer Processes and Intervalley Transitions to Free Electron Absorption in n-Si" by A. M. Vasil'ev and L. I. Trusov. (T) A. M. Vasil'ev and L. I. Trusov. 9, 1236 (1967) [9, 1564 (1967)]
Absorption Spectra and Indirect Optical Transitions in BiI_3 Single Crystals. (E) V. I. Vashchenko and V. B. Timofeev. 9, 1242 (1967) [9, 1577 (1967)]
Theory of Paramagnetic Absorption in an Isolated Spin-System. (T) A. A. Samokhin. 9, 1257 (1967) [9, 1597 (1967)]
Photoemission from a NaCl Crystal Stimulated by an Electric Discharge. (E/T) D. M. Mambetov and V. F. Resnyanskii. 9, 1417 (1967) [9, 1808 (1967)]
Effect of Hydrostatic Pressure on the Refractive Index of Epitaxial PbS Films. (E) Ya. A. Semenov and A. Yu. Shileika. 9, 1419 (1967) [9, 1810 (1967)]
Autoelectronic Emission from p-Silicon Cleaned with a Desorption Field. (E) G. N. Fursei and V. G. Ivanov. 9, 1421 (1967) [9, 1812 (1967)]
Exoelectronic Emission during Phase Transitions in Ferroelectric Materials. (E) V. S. Kortov and R. I. Mints. 9, 1436 (1967) [9, 1828 (1967)]
X-Ray Satellites of Silicon. (E) V. A. Fomichev and T. M. Zimkina. 9, 1441 (1967) [9, 1833 (1967)]
Infrared Absorption Spectra of Gallium Arsenide Heavily Doped with Sulfur, Selenium, and Tellurium. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 1443 (1967) [9, 1835 (1967)]
Work Function of Faces of a Rhenium Single Crystal in Vacuum and in a Stream of Cesium Atoms. (E) A. P. Ovchinnikov. 9, 1508 (1968) [9, 1911 (1967)]
Field-Emission Study of the Adsorption of Sodium on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 1519 (1968) [9, 1927 (1967)]
Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]
Relationship between the Damage of Ruby Crystals during Laser Emission and the Optical Homogeneity. (E) E. M. Akulenok, V. S. Papkov, and V. Ya. Khaimov-Mal'kov. 9, 1627 (1968) [9, 2075 (1967)]
Equations for the Sums of the Intensities in the Mössbauer Spectra. (T) S. V. Karyagin. 9, 1979 (1968) [9, 2514 (1967)]
Adsorption and Electron Emission of Molybdenum Films on a Tungsten Single Crystal. (E) V. A. Kuznetsov and B. M. Tsarev. 9, 1987 (1968) [9, 2524 (1967)]

Emergence of Local Vibrations of Additive Molecular Ions in the Infrared Absorption Spectra of Alkali Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2037 (1968) [9, 2590 (1967)]
Adsorption and Electron Emission of Cesium Films on Iridium. (E) N. D. Konovalov and V. I. Makukha. 9, 2108 (1968) [9, 2686 (1967)]
The Secondary Electron Emission (SEE) of Solids at Large Angles of Incidence of the Primary Beam. (E) I. M. Bronshtein and V. A. Dolinin. 9, 2133 (1968) [9, 2718 (1967)]
The X-Ray Spectra of Boron and Its Compounds (T/E) V. A. Fomichev. 9, 2496 (1968) [9, 3167 (1967)]
Photoelectric Properties of the Aluminum–Aluminum Oxide–Gold Film System. (E) A. L. Musatov. 9, 2580 (1968) [9, 3279 (1967)]
Mechanism of Electron-Stimulated Desorption of Oxygen from the Surface of Tungsten. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 2638 (1968) [9, 3347 (1968)]
The Possibility of the Generation of Vacuum Ultraviolet Radiation by Electron Excitation of Inert-Gas Crystals. (E) A. G. Molchanov, I. A. Poluéktov, and Yu. M. Popov. 9, 2655 (1968) [9, 3363 (1967)]
Influence of Impurities on Polymorphic Transitions in Octahydroanthracene Crystals. (E) V. N. Vatulev and A. F. Prikhot'ko. 9, 2739 (1968) [9, 3475 (1967)]
Field Emission of Lithium Films on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 2766 (1968) [9, 3512 (1967)]
Excitation Density Distribution for Internal Secondary Electrons in Cesium Iodide for Medium-Energy Primary Electrons. (E) M. V. Gomoyunova. 9, 2802 (1968) [9, 3559 (1967)]
Angular Dependence of the Radiation-Induced Conductivity and Secondary Emission Due to Bombardment of a Ge Single Crystal with Electrons. (E) I. A. Abroyan and A. I. Titov. 9, 2860 (1968) [9, 3628 (1967)]

ELECTRON PARAMAGNETIC RESONANCE

Microscopic Theory of F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 9, 1 (1967) [9, 3 (1967)]
Electron Paramagnetic Resonance of Vanadium and Chromium in CaF_2. (E/T) M. M. Zaripov, V. S. Kropotov, L. I. Livanova, and V. G. Stepanov. 9, 155 (1967) [9, 209 (1967)]
Determination of the Internal Crystal Field in $BaTiO_3$ Using Paramagnetic Ions and the Particle Size Effect. (E) É. V. Bursian and V. V. Shapkin. 9, 211 (1967) [9, 283 (1967)]
EPR of Cu^{2+} in $ZnWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 266 (1967) [9, 352 (1967)]
EPR Spectrum of Mn^{2+} in $ZnWO_4$. (E) A. A. Galkin, G. N. Neilo, and G. A. Tsintsadze. 9, 275 (1967) [9, 359 (1967)]
Width of Paramagnetic Resonance Lines Due to Impurity Ions in Scheelite Single Crystals. (E/T) I. N. Kurkin and L. Ya. Shekun. 9, 339 (1967) [9, 444 (1967)]
Influence of Uniaxial Pressure on the ESR Spectrum of the Mn^{2+} Ion in Calcite. (E) M. M. Zaitov. 9, 346 (1967) [9, 453 (1967)]
Electron Paramagnetic Resonance of the Cu^{2+} Ion in NH_4Br. (E) G. M. Larin, I. V. Miroshnichenko, and G. K. Chirkin. 9, 529 (1967) [9, 677 (1967)]
Electron Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) R. Yu. Abdulsabirov, V. M. Vinokurov, M. M. Zaripov, and V. G. Stepanov. 9, 541 (1967) [9, 689 (1967)]
Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]
EPR, Spin-Lattice Relaxation, and Optical Absorption in Magnesium Tungstate Containing Cobalt Impurity. (E) V. A. Atsarkin, S. K. Morshnev, and L. I. Potkin. 9, 660 (1967) [9, 846 (1967)]
Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Maevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 983 (1967)]
Temperature Dependence of Moments of EPR Lines. (E) V. M. Chernov. 9, 972 (1967) [9, 1247 (1967)]
Detection of Tl^{2+} Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 992 (1967) [9, 1265 (1967)]
Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR Lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1967) [9, 1403 (1967)]
EPR Studies of Rupture Points in Mechanically Stressed Polyamide Macromolecules. (E/T) V. A. Zakrevskii, É. E. Tomashevskii, and V. V. Baptizmanskii. 9, 1118 (1967) [9, 1434 (1967)]
Pseudo-Stark Splitting of Cr^{3+} EPR Line in $CdWO_4$. (T/E) M. I. Bichurin, E. S. Kovalenko, and V. G. Kozlov. 9, 1187 (1967) [9, 1518 (1967)]
Ferro- and Paramagnetic Resonance of Divalent Europium Oxides. (E/T) A. A. Samokhvalov, V. S. Babushkin, and V. G. Bamburov. 9, 1239 (1967) [9, 1573 (1967)]
Paramagnetic Resonance of Conduction Electrons in Silicon–Germanium Alloys. (E) I. G. Gverdtsiteli, L. N. Aleksandrov, and V. V. Boiko. 9, 1328 (1967) [9, 1690 (1967)]
Electron Paramagnetic Resonance of Phthalocyanines of Rare Earth Elements. (E) I. S. Kirin, Yu. L. Shelekhin, and P. N. Moskalev. 9, 1461 (1967) [9, 1852 (1967)]
Temperature Dependence of the EPR Line Width of Paramagnetic Impurities in Metals. (T) B. M. Khabibullin. 9, 1478 (1968) [9, 1874 (1967)]
Exchange Pairs of Nitrogen Impurities in Diamond. (E/T) L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko. 9, 1545 (1968) [9, 1964 (1967)]
EPR Investigation of Mn^{2+}–S_i^{-} in Sodium Chloride Crystals. (E) M. I. Kornfel'd and Yu. N. Tolparov. 9, 1607 (1968) [9, 2047 (1967)]
Hyperfine Structure of EPR Spectra of Rare-Earth Ions in Glasses. (E/T) T. S. Al'tshuler. 9, 1623 (1968) [9, 2070 (1967)]
Exchange Interactions of Cr^{3+} Ions in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Barkovskii. 9, 1663 (1968) [9, 2119 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Dysprosium. (E) Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1682 (1968) [9, 2138 (1967)]
Paramagnetic Resonance Spectrum in the Presence of a Strong Electron–Phonon Interaction. (T) B. I. Kochelaev. 9, 1712 (1968) [9, 2180 (1967)]
Orthorhombic EPR Spectrum of a Pair of Interacting Nd^{3+} Ions in SrF_2. (E) N. E. Kask and L. S. Kornienko. 9, 1795 (1968) [9, 2291 (1967)]
Experimental Investigation of the Influence of an External Field on the EPR Spectrum of Cr^{3+} Ions in Corundum. (E) V. I. Nepsha, Yu. A. Sharstkov, A. D. Gorlov, and A. A. Shchetkov. 9, 1907 (1968) [9, 2433 (1967)]
EPR of Mn^{2+} in $Cd(S_{1-x}Se_x)$ Single Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 9, 1912 (1968) [9, 2437 (1967)]
Electrical Effects in the EPR of Cu^{2+} in $CdWO_4$. (E) A. A. Bugai, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 1926 (1968) [9, 2450 (1967)]
Investigation of the Surface of Cadmium Selenide by the EPR Method. (E) Z. Z. Ditina and L. P. Strakhov. 9, 2000 (1968) [9 2539 (1967)]
Effect of Temperature on Gd^{3+} Impurity Centers in SrF_2. (E) F. Z. Gil'fanov, A. Kh. Karataeva, and A. L. Stolov. 9, 2172 (1968) [9, 2758 (1967)]
Paramagnetic Resonance Spectrum with the Electron-Phonon Interaction Taken into Consideration in the Case of Weak Coupling. (T) N. G. Koloskova and B. I. Kochelaev. 9, 2317 (1968) [9, 2948 (1967)]
Temperature Dependence of the Cubic Splitting of EPR Spectra of Eu^{2+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 9, 2340 (1968) [9, 2978 (1967)]
EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]

EPR of Copper and Titanium Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2347 (1968) [9, 2985 (1967)]
EPR of Colloidal Lithium in Neutron-Irradiated LiF Crystals. (E) L. I. Dzhordzhishvili, T. L. Kalabegishvili, N. G. Politov, and S. V. Sobolevskaya. 9, 2348 (1968) [9, 2986 (1967)]
EPR of Mn^{2+} in Borate and Silicate Glasses. (E) E. I. Abdrashitova and N. R. Yafaev. 9, 2500 (1968) [9, 3172 (1967)]
Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3196 (1967)]
Moments of EPR Lines in Systems with Dominant Exchange Interaction. (T) S. M. Ryabchenko and L. A. Shul'man. 9, 2595 (1968) [9, 3296 (1967)]
Paramagnetic Resonance of Shallow Acceptors in Gallium Arsenide. (E) S. P. Fedotov, V. A. Presnov, and V. K. Bashenov. 9, 2620 (1968) [9, 3332 (1967)]
Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) V. A. Atsarkin and A. V. Frantsesson. 9, 2644 (1968) [9, 3352 (1967)]
EPR of Trivalent Chromium in $YAl_3(BO_3)_4$ Crystals. (E) V. A. Atsarkin, V. B. Kravchenko, and I. G. Matveeva. 9, 2646 (1968) [9, 3353 (1967)]
Electron Paramagnetic Resonance of Partially Reduced Rutile. (E) V. N. Bogomolov and L. S. Sochava. 9, 2647 (1968) [9, 3355 (1967)]
EPR Line Shape and Acoustic Magnetic Resonance of Cr^{3+} in Al_2O_3 in the Presence of an Electric Field. (T) U. Kh. Kopvillem and B. P. Smolyakov. 9, 2664 (1968) [9, 3375 (1967)]
Electron Paramagnetic Resonance of Cr^{3+} in $LaAlO_3$ Single Crystals. (E) A. V. Stafeev, M. P. Votinov, B. P. Berkovskii, and V. M. Luzhkov. 9, 2671 (1968) [9, 3639 (1967)]
Paramagnetic Centers in Silicon Powders. (E) N. A. Meshcheryakov, L. Ya. Al't, and V. F. Anufrienko. 9, 2667 (1968) [9, 3379 (1967)]
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Filipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]
EPR of Ground and Excited States of Er^{3+} Ions in Calcium and Strontium Molybdate Crystals. (E) G. M. Zverev, L. V. Makarenko, and A. I. Smirnov. 9, 2883 (1968) [9, 3651 (1967)]

FERROELECTRIC MATERIALS AND PROPERTIES

Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Kopt'sik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]
Ferroelectric Phase Transitions in Triglycine Sulfate at Pressures up to 10 kbars. (E) G. G. Leonidova, N. P. Netesova, and T. R. Volk. 9, 454 (1967) [9, 593 (1967)]
Study of the Ferroelectric Transition in $NaNO_3$ Using the Raman Scattering Spectrum in the Region of NO_3^- Anion Vibrations. (E) É. V. Chisler and M. S. Shur. 9, 796 (1967) [9, 1015 (1967)]
NMR and Ferroelectric Properties of Sodium Hydroselenite Mixed Crystals. (E) G. V. Gavrilova-Podol'skaya, S. P. Gabuda, and A. G. Lundin. 9, 911 (1967) [9, 1166 (1967)]
Absorption of Ultrasound during Phase Transitions in Triglycine Sulfate-Type Ferroelectrics. (E) K. A. Minaeva, A. P. Levanyuk, B. A. Strukov, and V. A. Kopt'sik. 9, 950 (1967) [9, 1220 (1967)]
Orientational Dielectric Polarization of a $PbNb_2O_6$ Type Ferroelectric from Reorientation of 180 and 90° Domains. (T) V. A. Isupov. 9, 1105 (1967) [9, 1417 (1967)]
Exoelectronic Emission during Phase Transitions in Ferroelectric Materials. (E) V. S. Kortov and R. I. Mints. 9, 1436 (1967) [9, 1828 (1967)]
Absorption of Hypersound in Ferrodielectrics at Low Temperatures. (T) B. I. Shklovskii. 9, 1512 (1968) [9, 1917 (1967)]
Influence of a Magnetic Field on the Thermal Conductivity of a Ferrodielectric at Low Temperatures. (T) V. N. Kashcheev and A. E. Shvets. 9, 1840 (1968) [9, 2091 (1967)]
Investigation of $Ba(TiSn)O_3$ Ferroelectric Ceramics at High Pressures. (E) I. N. Polandov and V. P. Mylov. 9, 1816 (1968) [9, 2319 (1967)]
Velocity of Ultrasound and ΔE Effect in Ceramic Ferropiezoelectric Elements. (E) I. I. Fedotov. 9, 1891 (1968) [9, 2419 (1967)]
Pyroelectric Effect in SbSeI Single Crystals. (E) B. P. Grigas. 9, 1903 (1968) [9, 2430 (1967)]
The Interband Interaction and Spontaneous Polarization of a Crystal Lattice. (T) I. B. Bersuker and B. G. Vekhter. 9, 2084 (1968) [9, 2652 (1967)]
Dielectric Properties of Sb_2S_3 Crystals. (E) I. P. Grigas and A. S. Karpus. 9, 2265 (1968) [9, 2882 (1967)]
Investigation of the Anomalous Dispersion of the Permittivity of Sb_2S_3 and SbSI Crystals at Microwave Frequencies. (E) I. P. Grigas and A. S. Karpus. 9, 2270 (1968) [9, 2887 (1967)]
Behavior of the Fundamental Absorption Edge of Ferroelectric Hydroselenites in the Vicinity of Phase Transitions. (E) N. R. Ivanov and K. A. Verkhovskaya. 9, 2337 (1968) [9, 2974 (1967)]
Profile of the Fundamental Absorption Edge of the Ferroelectric Semiconductor SbSI. (E) E. I. Gerzanich. 9, 2358 (1968) [9, 2995 (1967)]
Influence of the Long-Range Dipole-Dipole Forces on the Attenuation and Velocity of Ultrasound in Ferroelectrics near the Second-Order Transition Point. (T) S. Ya. Gegusina and M. A. Krivoglaz. 9, 2441 (1968) [9, 3095 (1967)]
Investigation of Antiferroelectrics at Millimeter Wavelengths. (E) Yu. M. Poplavko and V. G. Tsykalov. 9, 2600 (1968) [9, 3305 (1967)]
Polarization Discontinuities in Ferroelectric SbSI Caused by Illumination. (E) V. M. Rudyak and A. A. Bogomolov. 9, 2634 (1968) [9, 3336 (1967)]
Temperature Characteristics of Varikonds in the 3 cm Range of Wavelengths. (E) T. N. Verbitskaya, Yu. M. Poplavko, and B. Ya. Yazytskii. 9, 2634 (1968) [9, 3344 (1967)]
Structural Microirregularities in Certain Ferrite Single Crystals. (T/E) N. D. Ureulyak, N. I. Utkin, A. V. Belitskii, and V. A. Zuev. 9, 2729 (1968) [9, 3461 (1967)]
Pyroelectric Effect and Spontaneous Polarization in $LiTaO_3$. (E) M. B. Roitberg, Z. I. Shapiro, and A. Z. Rabinovich. 9, 2843 (1968) [9, 3613 (1967)]

FERROMAGNETIC AND FERRIMAGNETIC MATERIALS, PROPERTIES, AND EFFECTS

Ferromagnetic Resonance in Single Crystals of Bismuth–Calcium–Iron–Vanadium Garnet. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 134 (1967) [9, 179 (1967)]
Ferromagnetic and Spin-Wave Resonances in Fe–Ni Alloy Thin Films. (E) G. I. Rusov. 9, 146 (1967) [9, 196 (1967)]
Dependence of the Effective Field at Impurity Element Nuclei on the Ionic Radius. (E) A. V. Kogan. 9, 251 (1967) [9, 336 (1967)]
Multiple-Time Uncoupling for Correlation Functions. (T/E) S. I. Kubarev. 9, 305 (1967) [9, 400 (1967)]
Theory of Absorption and Emission of Light by an Impurity in Ferromagnetic and Antiferromagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 349 (1967) [9, 457 (1967)]
Impurity Atom in a Complex Ferromagnetic Structure (T) Yu. A. Izyumov and M. V. Medvedev. 9, 435 (1967) [9, 567 (1967)]
Parametric Amplification of Magnetoelastic Waves. (T) V. P. Lukomskii. 9, 467 (1967) [9, 607 (1967)]
Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]
Distribution of Magnetic Moment Density in a Ferromagnet near the Surface (T) É. G. Petrov. 9, 582 (1967) [9, 743 (1967)]
Theory of Ferromagnetic Free Induction and Echo. (T) U. Kh. Kopvillem. 9, 813 (1967) [9, 1038 (1967)]
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Ershov. 9, 854 (1967) [9, 1093 (1967)]

Characteristics of the Process of Magnetization Reversal and the Nature of Coercive Force of Cobalt Ferrite Powders. (E) O. A. Ivanov, Ya. S. Shur, and E. V. Shtol'ts. 9, 857 (1967) [9, 1098 (1967)]

Nonlinear Effects in a Ferromagnet. (T) V. M. Genkin. 9, 864 (1967) [9, 1106 (1967)]

Interaction of Spin Waves and Polarons in a Ferromagnetic Dielectric. (T) É. G. Petrov. 9, 867 (1967) [9, 1109 (1967)]

Measurement of the Magnetostriction Constants of Ferrite Single Crystals by the Ferromagnetic Resonance Method. (T/E) Yu. N. Kotyukov. 9, 899 (1967) [9, 1149 (1967)]

Effect of Thermodynamic Fluctuations of the Magnetization on the Ferromagnetic Resonance Line Width. (E) Yu. M. Yakovlev and Yu. R. Shil'nikov. 9, 920 (1967) [9, 1178 (1967)]

High-Frequency Oscillations in Polycrystalline Ferrites during Nonlinear Ferromagnetic Resonance. (E) Ya. A. Monosov and V. V. Surin. 9, 970 (1967) [9, 1246 (1967)]

Theory of Surface Spin Waves. (T) B. N. Filippov. 9, 1048 (1967) [9, 1339 (1967)]

The Mechanisms of the Interaction of Nuclear Spins with the Lattice in Ferro- and Antiferromagnets. (T) E. A. Turov. 9, 1234 (1967) [9, 1562 (1967)]

Magnetic Fields of the Nuclei of Sn^{111} Impurity Atoms in Ferromagnetic Materials. (E) A. E. Balabanov and N. N. Delyagin. 9, 1498 (1968) [9, 1899 (1967)]

Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 9, 1560 (1968) [9, 1983 (1967)]

Magnetoelastic Interaction in Antiferromagnets. (T) V. G. Bar'yakhtar and V. V. Gann. 9, 1611 (1968) [9, 2052 (1967)]

Ising Lattice at Negative Absolute Temperatures.(E) I. M. Ratner. 9, 1652 (1968) [9, 2107 (1967)]

Simple and Single Spin Waves in Ferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 9, 1798 (1968) [9, 2295 (1967)]

A Tensor for the Nonlinear Polarizability of a Ferromagnetic Metal. (T) V. M. Genkin and G. M. Genkin. 9, 1981 (1968) [9, 2517 (1967)]

The Fluctuations and Scattering Processes of Slow Nuetrons and Light in Antiferromagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and Yu. L. Bolotin. 9, 2016 (1968) [9, 2559 (1967)]

Equations of Motion for the Magnetization and Equations for the Temperature Change in a Ferrodielectric. (T) É. G. Petrov and A. A. Yatsenko. 9, 2022 (1968) [9, 2568 (1967)]

Magnetic Crystallographic Anisotropy of Indium-Substituted Yttrium Garnets. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 2134 (1968) [9, 2707 (1967)]

Influence of Domain Structure on the Ferromagnetic Resonance in an Iron-Yttrium Garnet Single Crystal. (E) V. I. Churkin and N. N. Chelishchev. 9, 2154 (1968) [9, 2742 (1967)]

Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. (E) 9, 2193 (1968) [9, 2790 (1967)]

Ultrasonic Absorption in Antiferromagnets. (T) G. A. Roman and B. I. Shklovskii. 9, 2198 (1968) [9, 2794 (1967)]

Spontaneous Magnetostriction of the Compound $MnAu_4$. (E) V. A. Gordienko and V. I. Nikolaev. 9, 2216 (1968) [9, 2820 (1967)]

Saturation Magnetization and Néel Temperature of Dilute Ferrite Solid Solutions. (T/E) V. P. Polyakov. 9, 2224 (1968) [9, 2830 (1967)]

Magnetic Structure of the Hexaferrite $Ba_2Me_2Fe_MO_H$ (Me_2Z). (E) I. I. Petrova, M. A. Vinnik, and L. N. Grigor'eva. 9, 2389 (1968) [9, 3026 (1967)]

Study of the Magnetic Properties of a System of $BiMnO_3$–$CaMnO_3$ Solid Solutions in a Pulsed Magnetic Field of 160 kOe. (E) A. T. Starovoitov. 9, 2472 (1968) [9, 3136 (1967)]

Rotation of the Plane of Polarization of Light and Magnetic Circular Dichroism in Ferrimagnetic $RbNiF_3$. (E) R. V. Pisarev, I. G. Sinii, and G. A. Smolenskii. 9, 2482 (1968) [9, 3149 (1967)]

Ferrimagnetism of Hexagonal Ferrites. (E) T. M. Perekalina and V. P. Cheparin. 9, 2534 (1968) [9, 3205 (1967)]

Magnetic Dipole Radiation of a Magnet. (T) V. G. Bar'yakhtar and A. G. Kvirikadze. 9, 2569 (1968) [9, 3264 (1967)]

Ferromagnetic Resonance in Thin Ferromagnetic Films. (T) V. M. Sokolov. 9, 2649 (1968) [9, 3357 (1967)]

Elastic and Magnetic Fields around Dislocations in Ferromagnets. (T) A. M. Kosevich and É. P. Fel'dman. 9, 2696 (1968) [9, 3415 (1967)]

Faraday Effect Mechanisms in Ferrimagnets. (E) M. V. Chetkin, I. G. Morozova, and G. K. Tyutneva. 9, 2852 (1968) [9, 3621 (1967)]

Ferromagnetic Resonance in Calcium-Bismuth-Vanadium-Gallium Garnet. (E) A. N. Ageev and O. B. Proskuryakov. 9, 2858 (1968) [9, 3626 (1967)]

Reversal of Magnetic Sublattices in Yttrium Orthoferrite. (E) A. T. Starovoitov and V. A. Bokov. 9, 2869 (1968) [9, 3637 (1967)]

FILMS, THIN

Investigation of the Adsorption and Electron Emission of Cesium Films on a Tungsten Single Crystal. (E) V. I. Makukha. 9, 111 (1967) [9, 150 (1967)]

Ferromagnetic and Spin-Wave Resonances in Fe–Ni Alloy Thin Films. (E) G. I. Rusov. 9, 146 (1967) [9, 196 (1967)]

Bombardment of Thin CdTe Films with Indium Ions. (E) G. A. Kachurin, A. E. Gorodetskii, Yu. V. Loburets, and L. S. Smirnov. 9, 375 (1967) [9, 494 (1967)]

Effect of Adsorption of Cs, Ba, Th, and Cu Atoms and of an Electric Field on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 501 (1967) [9, 651 (1967)]

Inelastic Scattering of Electrons Having Specific Energies in Thin Films of Gold. (E) N. G. Nakhodkin and P. V. Mel'nik. 9, 567 (1967) [9, 723 (1967)]

An X-Ray Tensometer Study of the Elastic Anisotropy of Crystals in Polycrystalline Vapor-Deposited Films. (E) M. Ya. Fuks, L. S. Palatnik, A. I. Il'inskii, and V. V. Belozerov. 9, 588 (1967) [9, 751 (1967)]

Calculation of the Energy Distribution of Electrons Transmitted through Thin Films of Matter. (T/E) A. F. Akkerman, Yu. A. Andreev, and Yu. G. Lyutov. 9, 599 (1967) [9, 766 (1967)]

Photoconductivity of Amorphous Selenium Films at 10^{10} cps. (E) Yu. A. Cherkasov and L. N. Ionov. 9, 722 (1967) [9, 930 (1967)]

Conductivity of Thin Indium Oxide Films. (E) V. F. Korzo and L. A. Ryabova. 9, 745 (1967) [9, 950 (1967)]

Dielectric Films Produced by Reactive Sputtering. (E) Yu. A. Prokhorov, V. V. Shakmanov, L. B. Shelyakin, and V. E. Yurasova. 9, 1091 (1967) [9, 1398 (1967)]

Effects of CdTe, Te, and Cd Condensation Rates on the Critical Temperatures and Phase Content of Thin Films. (E) K. V. Shalimova and É. N. Voronkov. 9, 1169 (1967) [9, 1497 (1967)]

Obtaining Thin Films of Molybdenum Carbide from Molybdenum Hexacarbonyl under the Action of an Electron Beam. (E) B. A. Vishnyakov and K. A. Osipov. 9, 1216 (1967) [9, 1545 (1967)]

Changes in Dislocation Structures during Preparation of Foil Specimens for Electron Microscope Transmission Studies. (E) M. M. Myshlyaev. 9, 1312 (1967) [9, 1669 (1967)]

Mechanism of Current Conduction in Thin-Film Metal–Dielectric–Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 1332 (1967) [9, 1695 (1967)]

Diffraction Contrast from γ-Phase Precipitates Formed in the Late Stages of Decomposition of the Solid Solution Cu–2% Be. (E) L. M. Sorokin. 9, 1353 (1967) [9, 1723 (1967)]

Deceleration of Slow Hydrogen and Deuterium Ions in a Thin Silver Foil. (E) Yu. V. Gott and V. G. Tel'kovskii. 9, 1741 (1968) [9, 2221 (1967)]

Generation of Hypersound and the Acoustic Excitation of Spin Waves by Means of a Thin Magnetic Film. (T) V. A. Ignatchenko and E. V. Kuz'min. 9, 1785 (1968) [9, 2277 (1967)]

Investigation of the Domain Structure of "Hypercritical" Permalloy Films by the Magnetooptical Method. (E) G. S. Krinchik, A. N. Verkhozin, and S. A. Gushchina. 9, 1812 (1968) [9, 2314 (1967)]

Adsorption and Electron Emission of Molybdenum Films on a Tungsten Single Crystal. (E) V. A. Kuznetsov and B. M. Tsarev. 9, 1987 (1968) [9, 2524 (1967)]
Adsorption and Electron Emission of Cesium Films on Iridium. (E) N. D. Konovalov and V. I. Makukha. 9, 2108 (1968) [9, 2686 (1967)]
Magnetic Reversal of "Hypercritical" Permalloy Films in an Alternating Magnetic Field. (E) A. N. Verkhozin. 9, 2141 (1968) [9, 2728 (1967)]
Electric Strength of Al_2O_3 Films. (E) V. F. Korzo. 9, 2167 (1968) [9, 2753 (1967)]
Monomolecular Semiconductor Layers on Metals. (T) L. N. Dobretsov. 9, 2177 (1968) [9, 2769 (1967)]
Defects in the Crystal Structure of Condensed Bismuth Films. (E) A. I. Fedorenko, L. S. Palatnik, and V. M. Kosevich. 9, 2238 (1968) [9, 2846 (1967)]
Investigation of the Kinetics of Growth of an Oxide Film on the Surface of Indium. (E) L. A. Agaev and I. N. Shklyarevskii. 9, 2334 (1968) [9, 2958 (1967)]
Calculation of the Influence of the Substrate Roughness on the Work Function of Evaporated Films. (E) E. A. Tishin and B. M. Tsarev. 9, 2352 (1968) [9, 2990 (1967)]
Electron-Diffraction Investigation of the Structure of Thin Solid Argon Films. (E) S. I. Kovalenko and N. N. Bagrov. 9, 2396 (1968) [9, 3032 (1967)]
High-Voltage Photo-emf Effect in Amorphous Films of Sb_2S_3. (E) L. A. Karpovich, M. V. Shilova, and K. N. Akatova. 9, 2377 (1968) [9, 3014 (1967)]
Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]
Photoelectric Properties of the Aluminum–Aluminum Oxide–Gold Film System. (E) A. L. Musatov. 9, 2580 (1968) [9, 3279 (1967)]
Ferromagnetic Resonance in Thin Ferromagnetic Films. (T) V. M. Sokolov. 9, 2649 (1968) [9, 3357 (1967)]
Field Emission of Lithium Films on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 2766 (1968) [9, 3512 (1967)]
Influence of the Adsorption of Oxygen on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 2782 (1968) [9, 3533 (1967)]
Nonlinear Reflection of Light from Thin Silver Films. (E) G. V. Krivoshchekov and V. I. Stroganov. 9, 2856 (1968) [9, 3625 (1967)]
Current Instability in Thin-Film Metal–Dielectric–Metal Structures. (E) A. E. Gershinskii and É. G. Kostsov. 9, 2905 (1968) [9, 3672 (1967)]

FRICTION

Internal Friction in Zirconium Dioxide at Temperatures in the Range 20–1250°C. (E) A. I. Kovalev and V. I. Pechenezhskii. 9, 278 (1967) [9, 363 (1967)]
Friction Forces and Surface Tension of Twinning Dislocations. (E/T) V. S. Boiko, R. I. Garber, and I. F. Krivenko. 9, 332 (1967) [9, 435 (1967)]
Influence of an Electrostatic Field on the Temperature Dependence of the Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, O. L. Mikhailova, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 531 (1967) [9, 679 (1967)]
Low-Temperature Internal-Friction Peaks in Lithium Fluoride Crystals. (E) N. G. Politov and D. G. Driyaev. 9, 1206 (1967) [9, 1534 (1967)]
High-Temperature Internal Friction of Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 1218 (1967) [9, 1547 (1967)]
Zener Relaxation Effect in Cu–Zn–Al Ternary Alloys. (E) K. M. Shtrakhman. 9, 1360 (1967) [9, 1732 (1967)]
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. (E) A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya. 9, 1574 (1968) [9, 2001 (1967)]
Investigation of Some Dynamic Characteristics of Dislocations in Potassium Bromide Crystals by the Internal Friction Method. (E) V. Ya. Platkov, V. P. Efimenko, and V. I. Startsev. 9, 2200 (1968) [9, 2799 (1967)]
Internal Friction and Electrical Resistivity of Silicon Single Crystals Subjected to Cyclic Bending. (E) R. I. Garber, I. I. Soloshenko, and I. A. Charkina. 9, 2573 (1968) [9, 3270 (1967)]

GALVANOMAGNETIC EFFECTS

Quantum Theory of the Nernst-Ettingshausen Effect in Semiconductors. (T) A. I. Ansel'm and B. M. Askerov. 9, 22 (1967) [9, 31 (1967)]
Carrier Mobility and Density in Uniaxially Compressed Silicon and p-Type Germanium at Low Temperatures. (E) I. V. Kucherenko. 9, 614 (1967) [9, 784 (1967)]
Hall Effect and Electrical Resistivity of Vanadium at 20–300°K. (E) E. B. Amitin, Yu. A. Kovalevskaya, and Yu. Z. Kovdrya. 9, 704 (1967) [9, 905 (1967)]
Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Makarov. 9, 828 (1967) [9, 1058 (1967)]
Indirect Interaction of Electrons and Holes through Phonons and Its Effect on the Kinetic Properties of Semimetals. (T) L. É. Gurevich and I. Ya. Korenblit. 9, 932 (1967) [9, 1195 (1967)]
Correction to the Paper of Yu. P. Irkhin and V. G. Postovalov "Types of Spin-Orbital Interactions and the Spontaneous Hall Effect at Low Temperatures." (T) Yu. P. Irkhin and V. G. Postovalov. 9, 989 (1967) [9, 1262 (1967)]
Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2742 (1968) [9, 3479 (1967)]
Galvanomagnetic Effects in Antimony and the Pressure Dependence of the Energy Spectrum. (T/E) V. V. Kechin. 9, 2828 (1968) [9, 3595 (1967)]

GAMMA RADIATION

Effect of Electron and γ-Irradiation on VK-2 and VK-4 Type "varicords." (E) I. I. Kuz'min, S. P. Solov'ev, T. N. Verbitskaya, and V. A. Kharchenko. 9, 713 (1967) [9, 918 (1967)]
Study of Nuclear γ-Resonance after α-Decay. (E) G. N. Belozerskii, Yu. A. Nemilov, A. A. Chaikhorskii, and A. V. Shvedchikov. 9, 978 (1967) [9, 1252 (1967)]
Combinatorial Method for Calculating the Mössbauer Hyperfine Spectrum. (T) S. V. Karyagin. 9, 1252 (1967) [9, 1590 (1967)]
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lebed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]
The Mössbauer Effect in AgI^{129}. (E) A. N. Murin, B. G. Lur'e, and Yu. S. Grushko. 9, 1429 (1967) [9, 1820 (1967)]
Equations for the Sums of the Intensities in the Mössbauer Spectra. (T) S. V. Karyagin. 9, 1979 (1968) [9, 2514 (1967)]
Influence of Plastic Deformation on the Magnitude of the Mössbauer Effect. (E) V. S. Kortov, R. I. Mints, and Yu. N. Sekisov. 9, 2169 (1968) [9, 2755 (1967)]
Effect of the Exchange Interaction of Magnetic Ions on the Intensities of Mössbauer Spectra. (T) Sh. Sh. Bashkirov and G. Ya. Selyutin. 9, 2284 (1968) [9, 2904 (1967)]
Magnetic Fields at Tin Nuclei in a Manganese Ferrite. (E) G. V. Novikov, V. A. Trukhtanov, S. I. Yushchuk, and N. A. Grigoryan. 9, 2350 (1968) [9, 2988 (1967)]
Isomer Shifts of Impurity Sn^{119} Nuclei in Some Semiconducting Compounds. (E) V. V. Chekin, A. P. Vinnikov, and O. P. Balkashin. 9, 2354 (1968) [9, 2992 (1967)]
Mössbauer and X-Ray Investigations of a Finely Divided Fe + 12 at. % Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]
Mössbauer Effect at Sn^{119} Nuclei in Some Garnet Structure Compounds. (E) I. S. Lyubutin and B. V. Mill'. 9, 2479 (1968) [9, 3145 (1967)]
Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]

GLASS

Fluctuation Levels in the Glassy Semiconductor $Tl_2Se \cdot As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. 9, 19 (1967) [9, 27 (1967)]

Nature of the Damage of High-Strength Glass and Possibilities of Protecting Glass. (E) L. G. Bafkova, F. F. Vitman, T. G. Dmitrieva, and V. P. Pukh. 9, 365 (1967) [9, 480 (1967)]

Mössbauer Effect in Glasses Containing Tin. (E) K. P. Mitrofanov and T. A. Sidorov. 9, 693 (1967) [9, 890 (1967)]

Reversible Structural Transitions in Glassy SiO_2 at Elevated Temperatures. (E) A. I. Soklakov and V. V. Nechaeva. 9, 715 (1967) [9, 921 (1967)]

Nature of Microwave Dielectric Losses in Glasses. (E) M. D. Mashkovich and É. N. Smelyanskaya. 9, 974 (1967) [9, 1249 (1967)]

Importance of Waterproofing Glass for Its High-Strength State. (E/T) V. A. Bershtein and F. F. Vitman. 9, 1272 (1967) [9, 1618 (1967)]

Influence of Heat Treatment on the High-Strength State of Glass. (E) L. G. Bafkova, F. F. Vitman, and V. P. Pukh. 9, 1716 (1968) [9, 2185 (1967)]

Experimental Investigation of the Optical Properties and of the Nonlinear Absorption Mechanism of Glass Containing Cadmium Selenide. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 9, 1776 (1968) [9, 2265 (1967)]

Mechanism of the Interaction between a Laser Light Beam and Light-Sensitive Glass. (E) L. I. Mirkin, N. F. Pilipetskii, and É. M. Rabinovich. 9, 1877 (1968) [9, 2400 (1967)]

Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]

EPR of Mn^{2+} in Borate and Silicate Glasses. (E) É. I. Abdrashitova and N. R. Yafaev. 9, 2500 (1968) [9, 3172 (1967)]

IMPURITIES

States of Electrons Localized at Surface Charges. (T) B. V. Petukhov, V. L. Pokrovskii, and A. V. Chaplik. 9, 51 (1967) [9, 70 (1967)]

Distribution of Divalent Impurities in the Crystallization of KCl from the Melt. (E) G. A. Andreev and S. F. Burefko. 9, 58 (1967) [9, 79 (1967)]

Interaction of Impurities in a NaCl Melt. (E) G. A. Andreev. 9, 61 (1967) [9, 83 (1967)]

Stabilization of Quenched-In Stacking Fault Tetrahedra in Copper Containing Aluminum as an Impurity. (E) V. N. Rozhanskii, V. V. Kirichenko, and A. A. Predvoditelev. 9, 131 (1967) [9, 175 (1967)]

Coalescence of F Centers in Photochemically Colored NaCl and KCl Crystals Containing Anion Impurities. (E) N. A. Tesl', M. V. Pashkovskii, and R. I. Didyk. 9, 175 (1967) [9, 237 (1967)]

Dependence of the Effective Field at Impurity Element Nuclei on the Ionic Radius. (E) A. V. Kogan. 9, 251 (1967) [9, 336 (1967)]

Reduction of the Forbidden Band Width of a Heavily Doped Semiconductor. (T/E) A. A. Rogachev. 9, 283 (1967) [9, 369 (1967)]

Theory of Absorption and Emission of Light by an Impurity in Ferromagnetic and Antiferromagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 349 (1967) [9, 457 (1967)]

Temperature Dependence of the Isoconcentration Diffusion of Zinc in Gallium Arsenide. (E) R. Sh. Malkovich and G. K. Malysh. 9, 423 (1967) [9, 553 (1967)]

Impurity Atom in a Complex Ferromagnetic Structure. (T) Yu. A. Izyumov and M. V. Medvedev. 9, 435 (1967) [9, 567 (1967)]

EPR, Spin-Lattice Relaxation, and Optical Absorption in Magnesium Tungstate Containing Cobalt Impurity. (E) V. A. Atsarkin, S. K. Morshnev, and L. I. Potkin. 9, 660 (1967) [9, 846 (1967)]

Negative Magnetoresistance in Cu-Doped n-Type GaAs. (E/T) O. V. Emel'yanenko, É. É. Klotyn'sh, T. S. Lagunova, and D. N. Nasledov. 9, 725 (1967) [9, 933 (1967)]

Study of the Concentration Dependence of the EPR of Mn^{2+} in CdTe Single Crystals. (E) M. F. Deigen, V. Ya. Zevin, V. M. Maevskii, I. V. Potykevich, and B. D. Shanina. 9, 773 (1967) [9, 983 (1967)]

Influence of Uniaxial Compression on the Interimpurity Radiative Recombination in Germanium. (E) V. P. Dobrego, S. M. Ryvkin, and I. S. Shlimak. 9, 1131 (1967) [9, 1451 (1967)]

A Quasiclassical Estimate of the Cross Section for Multiphonon Trapping in the Non-Condon Approximation for the Deformation Interaction. (T) É. P. Sinyavskii and V. A. Kovarskii. 9, 1142 (1967) [9, 1464 (1967)]

Vibrational Instability of Impurity Centers and Nonsymmetric Distortions of the Lattice. (T) N. N. Kristofel' and G. S. Zavt. 9, 1246 (1967) [9, 1582 (1967)]

Probability of Tunneling through an Impurity Level. (T) V. I. Tikhonov. 9, 1364 (1967) [9, 1737 (1967)]

Effect of Localized States on the Damping of Elastic Waves in Crystals. (T) M. A. Ivanov and M. A. Krivoglaz. 9, 1388 (1967) [9, 1771 (1967)]

Infrared Absorption Spectra of Gallium Arsenide Heavily Doped with Sulfur, Selenium, and Tellurium. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 1443 (1967) [9, 1835 (1967)]

Thermal Conductivity of NaF Single Crystals Containing K, Li, and Cl Impurities. (E) I. A. Smirnov. 9, 1454 (1967) [9, 1845 (1967)]

Magnetic Fields of the Nuclei of Sn^{119} Impurity Atoms in Ferromagnetic Materials. (E) A. E. Balabanov and N. N. Delyagin. 9, 1498 (1968) [9, 1899 (1967)]

Exchange Pairs of Nitrogen Impurities in Diamond. (E/T) L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko. 9, 1545 (1968) [9, 1964 (1967)]

Theory of Spin-Lattice Relaxation of Impurity Centers. (T) L. L. Buishvili and M. D. Zviadadze. 9, 1549 (1968) [9, 1969 (1967)]

Electrical Conductivity of Ca, Sr, and Ba Fluorides Containing TR^{3+} Impurity. (E) T. I. Nikitinskaya, E. V. Suntsov, and M. S. Tyutin. 9, 1656 (1968) [9, 2111 (1967)]

Influence of Oxygen Impurity on the Conductivity of Lithium Fluoride. (E) Yu. B. Vladimirskii, T. I. Nikitinskaya, and P. A. Tsirul'nik. 9, 1666 (1968) [9, 2122 (1967)]

Changes in the Concentration of Gold in Silicon. R. Sh. Malkovich. 9, 1676 (1968) [9, 2132 (1967)]

Effect of Force Constant Changes on the Properties of Crystals Containing Impurity Atoms. (T) A. P. Zhernov and G. R. Augst. 9, 1724 (1968) [9, 2196 (1967)]

Coherent Effects in Crystals Containing Electron Impurity Centers. (T) M. A. Ivanov. 9, 1731 (1968) [9, 2206 (1967)]

State of Iron Impurity Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1901 (1968) [9, 2428 (1967)]

Effect of Various Impurities on the Thermal Conductivity of the Germanium Lattice. (E) A. V. Ioffe. 9, 1914 (1968) [9, 2439 (1967)]

Theory of the Stark Effect in the Optical Spectrum of Impurity Ion Pairs of $3d^3$ Configuration in Corundum. (T) A. E. Nikiforov. 9, 1922 (1968) [9, 2446 (1967)]

Temperature Dependence of the EPR Line Width of Paramagnetic Impurities in Metals. (T) B. M. Khabibullin. 9, 1478 (1968) [9, 1874 (1968)]

Reduction of the Slater Parameters for an Impurity Ion. (T) V. V. Druzhinin. 9, 1938 (1968) [9, 2463 (1967)]

Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2064 (1968) [9, 2635 (1967)]

Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]

Theory of Light Absorption and Emission by Impurity Centers in Paramagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 2114 (1968) [9, 2693 (1968)]

Magnetic Ordering of Zinc Tungstate with a High Concentration of Manganese Impurity. (E) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 9, 2152 (1968) [9, 2739 (1967)]

Effect of Temperature on Gd^{3+} Impurity Centers in SrF_2. (E) F. Z. Gil'fanov, A. Kh. Karataeva, and A. L. Stolov. 9, 2172 (1968) [9, 2758 (1967)]

Quadrupole Splitting of an NMR Line Caused by Lattice Distortion by Impurity Ions in NaCl-Type Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 9, 2287 (1968) [9, 2909 (1967)]

Temperature Dependence of the Cubic Splitting of EPR Spectra of Eu^{2+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 9, 2340 (1968) [9, 2978 (1967)]

EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]

Detection of V^{2+} in SrF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2346 (1968) [9, 2984 (1967)]

EPR of Copper and Titanium Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2347 (1968) [9, 2985 (1967)]

Isomer Shifts of Impurity Sn^{119} Nuclei in Some Semiconducting Compounds. (E) V. V. Chekin, A. P. Vinnikov, and O. P. Balkashin. 9, 2354 (1968) [9, 2992 (1967)]

Effect of Interband Interaction of Light and Heavy Holes on the Lorentz Number in Doped p-PbTe Single Crystals in the High- and Low-Temperature Regions. (E) M. N. Vinogradova, N. V. Kolomoets, I. A. Smirnov, and L. M. Sysoeva. 9, 2368 (1968) [9, 3004 (1967)]

Correlation between Divalent Cation Impurity and Dipolon Concentrations in Alkali-Halide Crystals. (E) G. A. Rozman. 9, 2392 (1968) [9, 3029 (1967)]

Thermodynamic Model for Dissolution of Impurities and Deviations from Stoichiometry in Crystals Having Stoichiometric Vacancies. (T) V. M. Koshkin, Yu. A. Freiman, and L. V. Atroshchenko. 9, 2460 (1968) [9, 3120 (1967)]

Paramagnetic Centers in Silicon Powders. (E) N. A. Meshcheryakov, L. Ya. Al't, and V. F. Anufrienko. 9, 2667 (1968) [9, 3379 (1967)]

Influence of Impurities on Polymorphic Transitions in Octahydroanthracene Crystals. (E) V. N. Vatulev and A. F. Prikhot'ko. 9, 2739 (1968) [9, 3475 (1967)]

Infrared Absorption of Gallium Arsenide Doped with Group VI Impurities. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 2849 (1968) [9, 3618 (1967)]

Investigation of the Distribution of Boron Atoms in Silicon Doped by Ion Bombardment. (E) E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 2874 (1968) [9, 3642 (1967)]

Temperature Dependence of the Intensity of Local Vibrations of OH Ions in Infrared Absorption Spectra of Alkali-Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2900 (1968) [9, 3668 (1967)]

IONS AND IONIC CRYSTALS

Microscopic Theory of F Centers in NaCl Crystals. (T/E) Z. Ya. Evseev and K. B. Tolpygo. 9, 1 (1967) [9, 3 (1967)]

Calculation of the Binding Energy of Ionic Crystals Using a Model Potential (T) Yu. A. Logachev and I. V. Abarenkov. 9, 6 (1967) [9, 10 (1967)]

Distribution of Divalent Impurities in the Crystallization of KCl from the Melt. (E) G. A. Andreev and S. F. Bureiko. 9, 58 (1967) [9, 79 (1967)]

Interaction of Impurities in a NaCl Melt. (E) G. A. Andreev. 9, 61 (1967) [9, 83 (1967)]

Magnetic Resonance in Singlet Electronic Levels of V^{3+} Ions in Corundum. (E/T) V. N. Yastrebov. 9, 95 (1967) [9, 129 (1967)]

Electron Paramagnetic Resonance of Vanadium and Chromium in CaF_2. (E/T) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 155 (1967) [9, 209 (1967)]

Effect of Mn^{2+} Ions on Relaxation Processes in Ferrites. (E) E. V. Lebedeva, A. I. Pil'shchikov, and E. K. Yur'eva. 9, 237 (1967) [9, 317 (1967)]

Dependence of the Effective Field at Impurity Element Nuclei on the Ionic Radius. (E) A. V. Kogan. 9, 251 (1967) [9, 336 (1967)]

Phase Diagram of a System of Solid Solutions $BiMnO_3$–$PbTiO_3$ Having Perovskite-Type Structure (E) V. A. Bokov, N. A. Grigoryan, and M. F. Bryzhina. 9, 262 (1967) [9, 347 (1967)]

EPR of Cu^{2+} in $ZnWO_4$. (E) A. A. Bugal, M. F. Deigen, V. O. Oganesyan, and M. V. Pashkovskii. 9, 266 (1967) [9, 352 (1967)]

EPR Spectrum of Mn^{2+} in $ZnWO_4$. (E) A. A. Galkin, G. N. Neilo, and G. A. Tsintsadze. 9, 275 (1967) [9, 359 (1967)]

Influence of Uniaxial Pressure on the ESR Spectrum of the Mn^{2+} Ion in Calcite. (E) M. M. Zaitov. 9, 346 (1967) [9, 453 (1967)]

Effect of the Exchange Interaction on Spin-Lattice Relaxation in Paramagnetic Ionic Crystals. (T) S. A. Al'tshuler and V. A. Skrebnev. 9, 379 (1967) [9, 498 (196)]

Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]

Electron Paramagnetic Resonance of the Cu^{2+} Ion in NH_4Br. (E) G. M. Larin, I. V. Miroshnichenko, and G. K. Chirkin. 9, 529 (1967) [9, 677 (1967)]

Electron Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) R. Yu. Abdulsabirov, V. M. Vinokurov, M. M. Zaripov, and V. G. Stepanov. 9, 541 (1967) [9, 689 (1967)]

Irradiation of Thin Layers of CdTe by Cadmium Ions. (E) L. S. Smirnov, G. A. Kachurin, and A. E. Gorodetskii. 9, 564 (1967) [9, 719 (1967)]

Spin-Lattice Relaxation of Neodymium in Single Crystals of Some Scheelites. (E/T) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 636 (1967) [9, 813 (1967)]

Initial Permeability of Ferrite Garnets Containing Vandium Ions. (E) S. A. Poltinnikov and O. B. Proskuryakov. 9, 736 (1967) [9, 942 (1967)]

Influence of the Multiplet Structure of Sm^{2+} on the Specific Heat of Samarium Monochalcogenides. (E) A. V. Golubkov and V. V. Tikhonov. 9, 750 (1967) [9, 954 (1967)]

Magnitude of the Initial Splittings of Gadolinium Ions in Crystals of the Scheelite Series. (E/T) V. M. Vinokurov and V. G. Stepanov. 9, 844 (1967) [9, 1081 (1967)]

Motion of Na^+ in a Diffusion Zone of the NaCl–NaBr System. (E) Ya. E. Geguzin, V. I. Solunskii, and A. G. Shakhova. 9, 980 (1967) [9, 1254 (1967)]

Detection of Ti^{3+} Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 992 (1967) [9, 1265 (1967)]

Positronium Atom in Solids. (T) E. P. Prokop'ev. 9, 993 (1967) [9, 1266 (1967)]

Jahn-Teller Effect in the Ground State of the V^{2+} Ion in Fluorite Taking Covalency into Account. (T) L. K. Aminov and B. Z. Malkin. 9, 1030 (1967) [9, 1316 (1967)]

Nonequilibrium States in the Spin System of the Fe^{3+} Ion in Andalusite. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. 9, 1040 (1967) [9, 1329 (1967)]

Symmetry of Centers and Nature of Excited Stark Levels of Gd^{3+} Ion in CaF_2 Crystals. (E) F. Z. Gil'fanov, A. M. Leushin, and A. L. Stolov. 9, 1061 (1967) [9, 1357 (1967)]

Mössbauer Effect in Covalent Iron Complexes at Low Temperatures. (E) B. Sawicki, J. Sawicki, and A. Z. Hrynkiewicz. 9, 1100 (1967) [9, 1410 (1967)]

A Study of the State of Iron Ions in Silver Halides Using the Mössbauer Effect. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1110 (1967) [9, 1424 (1967)]

Motion of Liquid-Lithium Inclusions in LiF Single Crystals in an External Electric Field. (T/E) Ya. E. Geguzin, S. S. Simeonov, and É. A. Éivazov. 9, 1123 (1967) [9, 1440 (1967)]

Pseudo-Stark Splitting of Cr^{3+} EPR Line in $CdWO_4$. (T/E) M. I. Bichurin, E. S. Kovalenko, and V. G. Kozlov. 9, 1187 (1967) [9, 1518 (1967)]

Fine Structure of the Ground State of Co^{2+} in $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova and R. V. Pisarev. 9, 1220 (1967) [9, 1550 (1967)]

X-Ray Determination of Dispersion Curves of the Ionic Crystals KCl and KI. (E) V. I. Iveronova, Parangtopo, and A. P. Zvyagina. 9, 1265 (1967) [9, 1609 (1967)]

Diffusion and Electrolytic Migration of Cadmium Ions in Mixed AgCl + CdCl$_2$ Crystals. (E) B. G. Lur'e, A. N. Murin, and I. V. Murin. 9, 1337 (1967) [9, 1702 (1967)]

Splitting of the Energy Levels of the Er^{3+} Ion in the Crystal Field of Strontium Molybdate. (E) Yu. A. Bobrovnikov, G. M. Zverev, and A. I. Smirnov. 9, 1403 (1967) [9, 1794 (1967)]

Temperature Dependence of Ionic Charge Transport in Pure Silver. (E/T) M. D. Smolin. 9, 1415 (1967) [9, 1807 (1967)]
Paraelectric Induction and Echo. (T) R. V. Shubina. 9, 1456 (1967) [9, 1847 (1967)]
Magnetic Susceptibilities of Some Chalcogenides of the Rare-Earth Elements. (E) G. V. Lashkarev and A. V. Savitskii. 9, 1485 (1968) [9, 1883 (1967)]
Energy Spectrum of Alkali Metal Ions Transmitted by Thin Copper Films. (E) E. M. Zarutskii. 9, 1495 (1968) [9, 1896 (1967)]
Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. (T/E) K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 9, 1553 (1968) [9, 1974 (1967)]
EPR Investigation of $Mn^{2+}-S_6^-$ in Sodium Chloride Crystals. (E) M. I. Kornfel'd and Yu. N. Tolparov. 9, 1607 (1968) [9, 2047 (1967)]
Hyperfine Structure of EPR Spectra of Rare-Earth Ions in Glasses. (E/T) T. S. Al'tshuler. 9, 1623 (1968) [9, 2070 (1967)]
Exchange Interactions of Cr^{3+} Ions in Ruby. (E) Yu. L. Shelekhin, M. P. Votinov, and B. P. Berkovskii. 9, 1663 (1968) [9, 2119 (1967)]
The Displacement of F^- Ions in CaF_2 Crystals by γ-Irradiation. (E) N. E. Kask and L. S. Kornienko. 9, 1670 (1968) [9, 2127 (1967)]
Deceleration of Slow Hydrogen and Deuterium Ions in a Thin Silver Foil. (E) Yu. V. Gott and V. G. Tel'kovskii. 9, 1741 (1968) [9, 2221 (1967)]
Neutron Diffraction Study of Atomic and Magnetic Structures of Calcium–Vanadium–Ferrite Garnet. (E) V. P. Plakhtii, G. P. Gordeev, A. A. Kuzina, and É. I. Turkevich. 9, 1762 (1968) [9, 2247 (1967)]
Orthorhombic EPR Spectrum of a Pair of Interacting Nd^{3+} Ions in SrF_2. (E) N. E. Kask and L. S. Kornienko. 9, 1795 (1968) [9, 2291 (1967)]
State of Vanadium Ions in Garnet Ferrites. (T/E) A. P. Nikol'skii, V. Ya. Dubossarskaya, and S. S. Gorelik. 9, 1809 (1968) [9, 2311 (1967)]
Reduction of the Slater Parameters for an Impurity Ion. (T) V. V. Druzhinin. 9, 1938 (1968) [9, 2463 (1967)]
Dependence of the Sputtering Coefficients of Polycrystalline Targets on the Angle of Incidence of Ions. (E) I. N. Evdokimov and V. A. Molchanov. 9, 1967 (1968) [9, 2503 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2080 (1968) [9, 2646 (1967)]
Phonon Scattering by Distorted Lattices of Ionic Crystals Containing Nonstoichiometric Vacancies. (E/T) I. I. Vishnevskii and V. N. Skripak. 9, 2129 (1968) [9, 2713 (1967)]
Longitudinal Relaxation at Simple Electron Levels of V^{3+} Ions in Corundum. (E) V. N. Yastrebov. 9, 2174 (1968) [9, 2760 (1967)]
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]
A Comparison of Fundamental Theories on Polarization of Ionic Crystals. (T) S. N. Koikov. 9, 2292 (1968) [9, 2915 (1967)]
Thermal Ionization Mechanism for F Centers in Alkali-Halide Crystal Phosphors. (T/E) F. N. Zaitov and E. S. Dudarev. 9, 2435 (1968) [9, 3087 (1967)]
Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]
Paramagnetic Resonance of Fe^{3+} Ions in Natrolite. (E) V. A. Atsarkin and A. V. Frantsesson. 9, 2644 (1968) [9, 3352 (1967)]
EPR of Trivalent Chromium in $YAl_3(BO_3)_4$ Crystals. (E) V. A. Atsarkin, V. B. Kravchenko, and I. G. Matveeva. 9, 2646 (1968) [9, 3353 (1967)]
Radiochemical Reduction of MeF_2-RE^{3+} Crystals. (E) V. A. Arkhangel'skaya and M. N. Koseleva. 9, 2774 (1968) [9, 3523 (1967)]
Inelastic Energy Loss of Ions in Channels in Crystalline Materials. (T) Yu. V. Martynenko. 9, 2879 (1968) [9, 3646 (1967)]
Sputtering of Metal Nitrides and Borides by Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2887 (1968) [9, 3655 (1967)]
Measurement Feasibility of the Third Crystal-Field Constant of Cr^{3+} Ions in $ZnWO_4$-Type Crystals. (E) A. B. Roitsin. 9, 2891 (1968) [9, 3659 (1967)]

IRRADIATION EFFECTS

Excitation of Electromagnetic Waves in Ionic Semiconductors by an Electron Beam. (T) M. I. Kheifets. 9, 241 (1967) [9, 322 (1967)]
Formation of Structure Defects during Low-Temperature Irradiation of Indium Antimonide with X Rays. (E) B. Chelustka, R. Yu. Khansevarov, T. V. Mashovets, and I. R. Kozlova. 9, 253 (1967) [9, 338 (1967)]
Bombardment of Thin CdTe Films with Indium Ions. (E) G. A. Kachurin, A. E. Gorodetskii, Yu. V. Loburets, and L. S. Smirnov. 9, 375 (1967) [9, 494 (1967)]
Scanning Electron-Microscope Observation of the Action of Light on the Potential Distribution in a p–n Junction. (E) V. N. Vertsner, Yu. V. Chentsov, and V. M. Krygin. 9, 391 (1967) [9, 512 (1967)]
Concerning the Effect of Thermal Defects on the Radiation Stability of Germanium. (E) T. V. Mashovets, S. M. Ryvkin, and R. Yu. Khansevarov. 9, 407 (1967) [9, 535 (1967)]
Statistical Relationships Governing the Formation of Cracks in Polymethylmethacrylate under the Action of Laser Radiation. (E/T) V. I. Vladimirov, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]
Cathodoluminescence of SiC Crystals of Various Modifications Containing Radiation Defects. (E) V. V. Makarov. 9, 457 (1967) [9, 596 (1967)]
Experimental Investigation of the Absorption of CsI and CsBr Single Crystals in the Wavelength Range 0.38–2 mm. (E) E. M. Dianov. 9, 464 (1967) [9, 604 (1967)]
Participation of Focused Collisions Caused by Irradiation in the Deformation of Metal Crystals. (E) O. A. Troitskii. 9, 498 (1967) [9, 647 (1967)]
Influence of Temperature on the Distribution of the Lengths of Correlated Collision Chains Occurring in Cascades during the Irradiation of Copper Crystals. (E) T. S. Pugacheva and I. Safarbaev. 9, 508 (1967) [9, 659 (1967)]
Temperature Dependence of the Emission of Electrons by Ion Bombardment of Alkali-Halide Single Crystals. (E) I. A. Abroyan, I. S. Aref'eva, and V. P. Lavrov. 9, 516 (1967) [9, 667 (1967)]
Irradiation of Thin Layers of CdTe by Cadmium Ions. (E) L. S. Smirnov, G. A. Kachurin, and A. E. Gorodetskii. 9, 564 (1967) [9, 719 (1967)]
Calculation of the Energy Distribution of Electrons Transmitted through Thin Films of Matter. (T/E) A. F. Akkerman, Yu. A. Andreev, and Yu. G. Lyutov. 9, 599 (1967) [9, 766 (1967)]
Investigation of the Process of Sorption of Oxygen on (100) and (110) Faces of a Tungsten Single Crystal Using the Electron-Stimulated Desorption Effect. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 623 (1967) [9, 797 (1967)]
Radiation-Stimulated Diffusion in Cadmium Sulfide. (E) S. V. Starodubtsev, O. R. Niyazova, and M. A. Kaneev. 9, 679 (1967) [9, 872 (1967)]
Effect of Irradiation on the Diffusional-Dislocational Flow of Crystals. (T) A. M. Kosevich, Z. K. Saralidze, and V. V. Slezov. 9, 697 (1967) [9, 895 (1967)]
Effect of Electron and γ-Irradiation on VK-2 and VK-4 Type "Varioconds." (E) I. I. Kuz'min, S. P. Solov'ev, T. N. Verbitskaya, and V. A. Kharchenko. 9, 713 (1967) [9, 918 (1967)]
Radiation Annealing of Seeger's Depletion Zone. (T) V. M. Agranovich and É. Ya. Mikhlin. 9, 851 (1967) [9, 1089 (1967)]
Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]
Penetration of Hydrogen Ions in Copper. (E) E. M. Zarutskii. 9, 1172 (1967) [9, 1500 (1967)]
Low-Temperature Internal-Friction Peaks in Lithium Fluoride Crystals. (E) N. G. Politov and D. G. Driyaev. 9, 1206 (1967) [9, 1534 (1967)]

Obtaining Thin Films of Molybdenum Carbide from Molybdenum Hexacarbonyl under the Action of an Electron Beam. (E) B. A. Vishnyakov and K. A. Osipov. 9, 1216 (1967) [9, 1545 (1967)]
Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Ashin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]
Capture of Holes by Tl^+ Centers in KlrTl. (E) R. A. Kink and G. G. Lidi'ya. 9, 1316 (1967) [9, 1674 (1967)]
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lobed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]
Luminescence of X-Ray Irradiated KCl · Cu Crystals Caused by Small Deformations. (E) S. Z. Shmurak and M. B. Éliashberg. 9, 1427 (1967) [9, 1818 (1967)]
A Method for Observing Annealing of Defects in Crystals. (E) I. N. Evdokimov, E. S. Mashkova, and V. A. Molchanov. 9, 1434 (1967) [9, 1825 (1967)]
Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shastopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]
Migration of Excitons in Uranyl Salts. (E) A. P. Abramov, I. N. Abramova, and N. A. Tolstoi. 9, 1516 (1968) [9, 1923 (1967)]
Interaction between Radiations Defects and Dislocations in Germanium. (E) V. V. Khainovskaya and L. S. Smirnov. 9, 1603 (1968) [9, 2043 (1967)]
The Displacement of F^- Ions in CaF_2 Crystals by γ-Irradiation. (E) N. E. Kask and L. S. Kornienko. 9, 1670 (1968) [9, 2127 (1967)]
Effect of X-Ray Irradiation on Prehardened Regions of NaCl Single Crystals. (E) Yu. S. Boyarskaya and R. P. Zhitaru. 9, 1672 (1968) [9, 2129 (1967)]
Luminescence of Mixed ZnS_x-CdS_{1-x} Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. V. Zakrevskii, and V. Ya. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]
Radiation-Stimulated Migration Processes in Solids. (T) A. E. Kiv and F. T. Umarova. 9, 1745 (1968) [9, 2225 (1967)]
Mechanism of the Interaction between a Laser Light Beam and Light-Sensitive Glass. (E) L. I. Mirkin, N. F. Pilipetskii, and É. M. Rabinovich. 9, 1877 (1968) [9, 2400 (1967)]
Change in the Lattice Constant of Lithium Fluoride Single Crystals Due to X-Ray Irradiation. (E) L. A. Golubeva, S. A. Smiryagina, and A. A. Shishelov. 9, 1897 (1968) [9, 2424 (1967)]
Mechanism of Damage of Ruby by Laser Radiation. (E) É. A. Sviridenkov. 9, 1917 (1968) [9, 2442 (1967)]
Reflection of Ions Obliquely Incident on a Single Crystal. (T) V. E. Yurasova and D. S. Karpuzov. 9, 1971 (1968) [9, 2508 (1967)]
Sputtering of Metal Carbides with Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2232 (1968) [9, 2839 (1967)]
Displacement of Atoms by a Cascade of Fast Electrons. (T) V. M. Lenchenko and É. Chadaev. 9, 2310 (1968) [9, 2939 (1967)]
EPR of Colloidal Lithium in Nuetron-Irradiated LiF Crystals. (E) L. I. Dzhordzhishvili, T. L. Kalabegishvili, N. G. Politov, and S. V. Sobolevskaya. 9, 2348 (1968) [9, 2986 (1967)]
Surface Properties of Silicon after Irradiation with Ions Having Moderate Energies. (E) P. V. Pavlov and Yu. S. Popov. 9, 2431 (1968) [9, 3082 (1967)]
Anisotropy of the Orientation of the Tracks of Uranium Fission Fragments in LiF Single Crystals. (E) Yu. E. Goguzin, I. G. Berzina, and I. V. Vorob'eva. 9, 2642 (1968) [9, 3350 (1967)]
Coalescence of a System of Dislocation Loops and Pores in Materials Subjected to Irradiation. (T) V. V. Slezov. 9, 2720 (1968) [9, 3448 (1967)]
Radiochemical Reduction of MeF_3-RE^{3+} Crystals. (E) V. A. Arkhangel'skaya and M. N. Kiseleva. 9, 2774 (1968) [9, 3523 (1967)]
Angular Dependence of the Radiation-Induced Conductivity and Secondary Emission Due to Bombardment of a Ge Single Crystal with Electrons. (E) I. A. Abroyan and A. I. Titov. 9, 2860 (1968) [9, 3628 (1967)]
Exchange Interaction of F Centers in Neutron Irradiated Lithium Fluoride and Hydride. (E) G. I. Pilipenko, F. F. Gavrilov, A. A. Chirkov, V. P. Solodov, and Yu. M. Yumashev. 9, 2877 (1968) [9, 3645 (1967)]
Sputtering of Metal Nitrides and Borides by Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2887 (1968) [9, 3655 (1967)]
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3665 (1967)]

MAGNETIC PROPERTIES, EFFECTS, AND MATERIALS

Influence of Thermomagnetic Treatment on the Processes of Magnetization of Cobalt Ferrite Powders. (E) Ya. S. Shur, O. A. Ivanov, and E. V. Shtol'ts. 9, 30 (1967) [9, 42 (1967)]
Temperature and Field Dependence of the Knight Shift in Metals and Semiconductors. (T) D. A. Zhogolev. 9, 42 (1967) [9, 59 (1967)]
Theory of the Photoelectric Effect in Finite Crystals at High Frequencies and in the Presence of an External Magnetic Field. (T). L. É. Gurevich and A. A. Rumyantsev. 9, 55 (1967) [9, 75 (1967)]
Magnetic Properties of an FeRh Alloy in Strong Magnetic Fields. (E) É. A. Zavadskii and I. G. Fakidov. 9, 103 (1967) [9, 139 (1967)]
Theory of Interband Magnetic Breakdown in Metals. (T) A. A. Slutskin and A. M. Kadigrobov. 9, 138 (1967) [9, 184 (1967)]
Parametric Phenomena in Helicoidal Magnetic Structures. (T) M. A. Savchenko and V. V. Tarasenko. 9, 149 (1967) [9, 200 (1967)]
Longitudinal Magnetoresistance for Scattering by Optical Phonons. (T) V. V. Bryksin. 9, 171 (1967) [9, 232 (1967)]
Anisotropy of the Ultrasonic Attenuation Factor in Yttrium Garnet. (E) A. Nazyrov and A. V. Pavlenko. 9, 205 (1967) [9, 276 (1967)]
Effect of Mn^{3+} Ions on Relaxation Processes in Ferrites. (E) E. V. Lebedeva, A. I. Pil'shchikov, and E. K. Yur'eva. 9, 237 (1967) [9, 317 (1967)]
Excitation of Electromagnetic Waves in Ionic Semiconductors by an Electron Beam. (T) M. I. Kheifets. 9, 241 (1967) [9, 322 (1967)]
Effect of UHF Magnetic Field Polarization on the Instability Threshold of Spin Vibrations. (T) L. V. Kitaev, A. A. Goncharova, and G. I. Katamaran. 9, 246 (1967) [9, 330 (1967)]
Acoustomagnetoelectric Effect in Monopolar Conductors. (T) É. M. Épshtein and Yu. V. Gulyaev. 9, 288 (1967) [9, 376 (1967)]
Effect of the Type of Scattering on Corbino Magnetoresistance in Semiconductors. (T) I. Glasnik. 9, 317 (1967) [9, 414 (1967)]
Effect of the Exchange Interaction on Spin-Lattice Relaxation in Paramagnetic Ionic Crystals. (T) S. A. Al'tshuler and V. A. Skrebnev. 9, 379 (1967) [9, 498 (1967)]
Magnetic Properties of New Oxide Compounds of Divalent Europium, Containing Trivalent Ions of 3d and 4f Transition Metals. (E) A. A. Samokhvalov, V. G. Bamburov, N. V. Volkenshtein, T. D. Zotov, Yu. N. Morozov, and M. I. Simonova. 9, 428 (1967) [9, 559 (1967)]
Excitation of Surface Electromagnetic Waves in Semiconductors. (T) S. I. Khankina and V. M. Yakovenko. 9, 443 (1967) [9, 578 (1967)]
Theory of Nonlinear Effects in Paramagnetic Spin Absorption. (T) A. A. Samokhin. 9, 446 (1967) [9, 583 (1967)]
Parametric Amplification of Magnetoelastic Waves. (T) V. P. Lukomskii. 9, 467 (1967) [9, 607 (1967)]

Theory of Spin-Lattice Relaxation of Conduction Electrons in Semiconductors. (T) V. P. Kalashnikov. 9, 488 (1967) [9, 634 (1967)]
Time Lag in a Sequence of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, S. S. Starobinets, and K. V. Shevlyagin. 9, 510 (1967) [9, 661 (1967)]
Resistance of p-Type InSb in a Strong Longitudinal Magnetic Field. (E) Z. A. Ismailov. 9, 514 (1967) [9, 665 (1967)]
Measurement of the Spin-Lattice Relaxation Time in Strong Magnetic Fields. (E) A. K. Shevchenko. 9, 537 (1967) [9, 685 (1967)]
Hall Effect in an Invar Alloy at Low Temperatures. (E) E. P. Svirina and Yu. V. Nemchinov. 9, 553 (1967) [9, 704 (1967)]
Magnetic Properties of $Eu_{1-x}Ca_xO$ Solid Solutions. (E) A. A. Samokhvalov, N. V. Volkenshtein, V. G. Bamburov, T. D. Zotov, A. A. Ivakin, Yu. N. Morozov, and M. I. Simonova. 9, 555 (1967) [9, 706 (1967)]
Theory of Collective Excitations in a Heisenberg Paramagnet. (T) A. I. Mitsek. 9, 558 (1967) [9, 710 (1967)]
Slow Neutron Scattering by Spin Waves Excited by Ferromagnetic Resonance. (T) S. V. Maleev and S. S. Stamenkovich. 9, 575 (1967) [9, 733 (1967)]
Distribution of Magnetic Moment Density in a Ferromagnet near the Surface. (T) É. G. Petrov. 9, 582 (1967) [9, 743 (1967)]
Thermal Conductivity and Specific Heat of Yttrium-Calcium Garnets. (E) E. D. Devyatkova and V. V. Tikhonov. 9, 604 (1967) [9, 772 (1967)]
Theory of Transport Phenomena in Conductors in a Strong Magnetic Field. (T) S. V. Peletminskii and D. D. Tskhakaya. 9, 619 (1967) [9, 790 (1967)]
Negative Magnetoresistance in Cu-Doped n-Type GaAs. (E/T) O. V. Emel'yanenko, É. É. Klotyn'sh, T. S. Lagunova, and D. N. Nasledov. 9, 725 (1967) [9, 933 (1967)]
Initial Permeability of Ferrite Garnets Containing Vanadium Ions. (E) S. A. Politinnikov and O. B. Proskuryakov. 9, 736 (1967) [9, 942 (1967)]
Properties of Solid Solutions of Hexagonal Ferrites Having Z- and W-Type Structures. (E) I. I. Petrova. 9, 738 (1967) [9, 944 (1967)]
Characteristic Features of the Magnetic Properties of Trigonal and Tetragonal Rare-Earth Centers in CaF_2-Type Crystals. (E) L. Ya. Shekun. 9, 742 (1967) [9, 948 (1967)]
Nonresonance Magnetic Absorption of Ultrasound by Nuclei in a Metal. (T/E) B. M. Khabibullin. 9, 800 (1967) [9, 1020 (1967)]
Combination Resonance of Holes in Ge and Si Type Semiconductors. (T) G. L. Bir, E. I. Butikov, and G. E. Pikus. 9, 835 (1967) [9, 1068 (1967)]
Interaction of Bloch Walls with Dislocations in Weak Fields. (E) L. A. Chebotkevich, A. A. Urusovskaya, V. V. Veter, and A. D. Ershov. 9, 854 (1967) [9, 1093 (1967)]
Characteristics of the Process of Magnetization Reversal and the Nature of Coercive Force of Cobalt Ferrite Powders. (E) O. A. Ivanov, Ya. S. Shur, and E. V. Shtol'ts. 9, 857 (1967) [9, 1098 (1967)]
Spin-Lattice Relaxation in Kramers Systems. (T/E) I. V. Aleksandrov and K. K. Pukhov. 9, 906 (1967) [9, 1159 (1967)]
Amplitude and Time Oscillations of Magnetoelastic Pulses. (E) A. G. Gurevich, B. M. Lebed', S. A. Mironov, and K. V. Shevlyagin. 9, 942 (1967) [9, 1209 (1967)]
Nuclear Spin Polarization by a Flux of Hot Electrons in a Quantizing Magnetic Field. (T) V. P. Kalashnikov. 9, 976 (1967) [9, 1250 (1967)]
Amplitude of Knight Shift Oscillations. (E/T) D. A. Zhogolev and D. G. Dolgopolov. 9, 982 (1967) [9, 1256 (1967)]
Correction to the Paper of Yu. P. Irkhin and V. G. Postovalov "Types of Spin-Orbital Interactions and the Spontaneous Hall Effect at Low Temperatures." (T) Yu. P. Irkhin and V. G. Postovalov. 9, 989 (1967) [9, 1262 (1967)]
Biquadratic Indirect Exchange in Yttrium Garnet. (E) B. E. Rubinshtein. 9, 990 (1967) [9, 1263 (1967)]
Magnetic Lag and Dynamic High-Frequency Absorption in Ferrites. (E/T) L. B. Rozenbaum. 9, 1013 (1967) [9, 1294 (1967)]
A Contribution to the Theory of the Shape of the Acoustomagnetic Resonance Line. (T) M. N. Aliev. 9, 1020 (1967) [9, 1304 (1967)]
Polarization of the Radiation from a Ruby Laser. (T/E) A. I. Alekseev and Yu. P. Nikitin. 9, 1024 (1967) [9, 1309 (1967)]
Nonequilibrium States in the Spin System of the Fe^{3+} Ion in Andalusite. (E) I. I. Eru, S. A. Peskovatskii, and A. N. Chernets. 9, 1040 (1967) [9, 1329 (1967)]
Theory of Surface Spin Waves. (T) B. N. Filippov. 9, 1048 (1967) [9, 1339 (1967)]
Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]
Light Absorption by Free Current Carriers in a Semiconductor Placed in a Quantizing Magnetic Field. (T) I. A. Poluéktov and Yu. M. Popov. 9, 1079 (1967) [9, 1382 (1967)]
Estimation of the Relaxation Times and Width of the Distribution Function of Inhomogeneously Broadened EPR Lines by the Continuous Saturation Technique. (T/E) O. P. Zhidkov, V. I. Muromtsev, I. G. Akhvlediani, S. N. Safronov, and V. V. Kopylov. 9, 1095 (1967) [9, 1403 (1967)]
Mössbauer Effect in Covalent Iron Complexes at Low Temperatures. (E) B. Sawicki, J. Sawicki, and A. Z. Hrynkiewicz. 9, 1100 (1967) [9, 1410 (1967)]
Temperature Variation of the First Magnetic Anisotropy Constant in Lithium-Cobalt Ferrites. (E/T) M. A. Stel'mashenko. 9, 1137 (1967) [9, 1458 (1967)]
Oscillations of the Phonon Radiation Power in a Quantizing Magnetic Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 1150 (1967) [9, 1473 (1967)]
Measurement of the Magnetic Moment of $BiFeO_3$ in Pulsed Magnetic Fields up to 150 kOe. (E) A. T. Starovoitov. 9, 1201 (1967) [9, 1530 (1967)]
Initial Permeability of Cobalt-Zinc Ferrites. (E) S. A. Poltinnikov, N. N. Parfenova, and T. D. Yurchenko. 9, 1230 (1967) [9, 1558 (1967)]
The Mechanisms of the Interaction of Nuclear Spins with the Lattice in Ferro- and Antiferromagnets. (T) E. A. Turov. 9, 1234 (1967) [9, 1562 (1967)]
Theory of Paramagnetic Absorption in an Isolated Spin-System. (T) A. A. Samokhin. 9, 1257 (1967) [9, 1597 (1967)]
Magnetoresonance Faraday Effect in the Antiferromagnets MnF_2 and $RbMnF_3$. (E) N. F. Kharchenko and V. V. Eremenko. 9, 1302 (1967) [9, 1655 (1967)]
Spin-Lattice Relaxation of Localized Electron Centers with Hyperfine Interaction. (T) M. F. Deigen and I. I. Zheru. 9, 1320 (1967) [9, 1679 (1967)]
Effect of Gamma and Neutron Irradiation on the Ferromagnetic Resonance in Ferrites. (E) B. M. Lebed', L. Ya. Mukha, V. I. Mosel', and U. A. Ulmanis. 9, 1342 (1967) [9, 1708 (1967)]
The Spin-Phonon Interaction of Electrons and the Oscillations of the Longitudinal Magnetoresistance in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. 9, 1394 (1967) [9, 1780 (1967)]
Magnetic Properties of Crystals with Negative Differential Conductivity. (E) L. I. Trusov. 9, 1413 (1967) [9, 1805 (1967)]
Effect of Microwave Pulse Length on the Excitation of Unstable Spin Waves. (E) V. I. Churkin and N. N. Chelishchev. 9, 1423 (1967) [9, 1814 (1967)]
Electrical Conductivity and Magnetic Susceptibility of Oxide Semiconductors Based on Vanadium Oxides. (E) A. Yu. Kudzin and L. M. Chernenko. 9, 1436 (1967) [9, 1822 (1967)]
Magnetic Susceptibilities of Some Chalcogenides of the Rare-Earth Elements. (E) G. V. Lashkarev and A. V. Savitskii. 9, 1485 (1968) [9, 1883 (1967)]
Magnetic Fields of the Nuclei of Sn^{119} Impurity Atoms in Ferromagnetic Materials. (E) A. E. Balabanov and N. N. Delyagin. 9, 1498 (1968) [9, 1899 (1967)]
Absorption of Hypersound in Ferrodielectrics at Low Temperatures. (T) B. I. Shklovskii. 9, 1512 (1968) [9, 1917 (1967)]
Photoconductivity and Recombination of Triplet Excitons in Anthracene. (E) E. L. Frankevich and I. A. Sokolik. 9, 1532 (1968) [9, 1945 (1967)]

Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 9, 1560 (1968) [9, 1983 (1967)]
The Pinch Effect and Current Breakdown in Electron-Hole Plasma. (T) A. E. Stefanovich. 9, 1598 (1968) [9, 2035 (1967)]
Magnetoelastic Interaction in Antiferromagnets. (T) V. G. Bar'yakhtar and V. V. Gann. 9, 1611 (1968) [9, 2052 (1967)]
Influence of a Magnetic Field on the Thermal Conductivity of a Ferrodielectric at Low Temperatures. (T) V. N. Kashcheev and A. E. Shvets. 9, 1640 (1968) [9, 2091 (1967)]
Theory of Saturation of Parametric Resonance of Spin Waves in Ferrites. (T) G. A. Petrakovskii. 9, 1658 (1968) [9, 2113 (1967)]
Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. (T) S. L. Ginzburg, O. V. Konstantinov, and V. I. Perel'. 9, 1684 (1968) [9, 2139 (1967)]
Theory of Kinetic Oscillations in Semiconductors. (T) P. M. Karageorgii-Alkalaev and A. Yu. Leiderman. 9, 1691 (1968) [9, 2151 (1967)]
A Method for Constructing the Nonequilibrium Density Matrix in the Presence of an External Alternating Field. (T) L. L. Buishvili. 9, 1695 (1968) [9, 2157 (1967)]
Spin-Cyclotron Phonon Resonance in Semiconductors. (T) A. Yu. Matulis. 9, 1755 (1968) [9, 2238 (1967)]
Heating of the Crystal Lattice during Paramagnetic Relaxation in Gadolinium Hexaantipyrinate. (E) V. A. Atsarkin and R. N. Shchelokov. 9, 1766 (1968) [9, 2252 (1967)]
Generation of Hypersound and the Acoustic Excitation of Spin Waves by Means of a Thin Magnetic Film. (T) V. A. Ignatchenko and E. V. Kuz'min. 9, 1785 (1968) [9, 2277 (1967)]
Galvanomagnetic Effects in Semiconductors Having Toroidal Isoenergetic Surfaces. (T) A. G. Aronov and P. Kh. Musaev. 9, 1790 (1968) [9, 2284 (1967)]
Simple and Single Spin Waves in Ferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 9, 1798 (1968) [9, 2295 (1967)]
Investigation of the Domain Structure of "Hypercritical" Permalloy Films by the Magnetooptical Method. (E) G. S. Krinchik, A. N. Verkhozin, and S. A. Gushchina. 9, 1812 (1968) [9, 2314 (1967)]
Temperature Dependence of the Magnetostriction Constants of Single-Crystals of Yttrium-Gallium Ferrites Measured by the Microwave Method. (E/T) G. A. Petrakovskii, É. M. Smokotin, and A. G. Titova. 9, 1820 (1968) [9, 2324 (1967)]
Magnetocrystalline Anisotropy of Hexagonal Ferrite Single Crystals of the System $Ba_2Co_xZn_{2-x}Fe_{12}O_{22}$. (E) N. N. Agapova and T. M. Perekalina. 9, 1825 (1968) [9, 2330 (1967)]
Polarization of Spins by Hot Electrons in a Quantizing Magnetic Field. (T/E) A. K. Zvezdin. 9, 1843 (1968) [9, 2354 (1967)]
Shape of NMR Line for a Two-Spin and Nonresonant-Dipole System. (T/E) B. M. Moiseev and L. I. Fedorov. 9, 1867 (1968) [9, 2387 (1967)]
Remarks on Meshcheryakov's Paper "The Susceptibility of a Four-Level Paramagnetic System under Step-by-Step Conditions at Saturation." (T) A. Jeleński and Z. Szymszak. 9, 1905 (1968) [9, 2432 (1967)]
The Fluctuations and Scattering Processes of Slow Neutrons and Light in Antiferromagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and Yu. L. Bolotin. 9, 2016 (1968) [9, 2559 (1967)]
Equations of Motion for the Magnetization and Equations for the Temperature Change in a Ferrodielectric. (T) É. G. Petrov and A. A. Yatsenko. 9, 2022 (1968) [9, 2568 (1967)]
Quantum Oscillations of Thermomagnetic Coefficients in Strong Magnetic Fields. (T) Yu. M. Gal'perin. 9, 2029 (1968) [9, 2579 (1967)]
Determination of the Size of Regions of Concentration Inhomogeneity in Certain Single-Phase Silver-Base Alloys from Measurements of the Zener Relaxation. (E) K. M. Shtrakhman and Yu. V. Pigusov. 9, 2034 (1968) [9, 2586 (1967)]
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Spin-Lattice Relaxation of Cubic and Trigonal Er^{3+} Centers. (E) A. A. Antipin, Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 8, 2080 (1968) [9, 2646 (1967)]
Resonant Frequencies in a Two-Sublattice Uniaxial Ferrite in the Noncollinear Phase. (T) B. I. Kuliev and G. M. Nedlin. 9, 2102 (1968) [9, 2678 (1967)]
Theory of Light Absorption and Emission by Impurity Centers in Paramagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 2114 (1968) [9, 2693 (1967)]
Magnetic Crystallographic Anisotropy of Indium-Substituted Yttrium Garnets. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 2124 (1968) [9, 2707 (1967)]
Magnetic Reversal of "Hypercritical" Permalloy Films in an Alternating Magnetic Field. (E) A. N. Verkhozin. 9, 2141 (1968) [9, 2728 (1967)]
Magnetic Ordering of Zinc Tungstate with a High Concentration of Manganese Impurity. (E) A. I. Zvyagin, V. A. Moiseev, and A. M. Pshisukha. 9, 2152 (1968) [9, 2739 (1967)]
Quantum Oscillations of Transport Coefficients of Mercury Selenide. (E) M. S. Bresler, S. A. Aliev, and S. S. Shalyt. 9, 2159 (1968) [9, 2746 (1967)]
Longitudinal Relaxation at Simple Electron Levels of V^{3+} Ions in Corundum. (E) V. N. Yastrebov. 9, 2174 (1968) [9, 2760 (1967)]
Characteristic Features of the Ordering of Rare-Earth Ions in Dysprosium and Terbium Orthoferrites. (E) K. P. Belov, A. M. Kadomtseva, T. M. Ledneva, T. L. Ovchinnikova, Ya. G. Ponomarev, and V. A. Timofeeva. 9, 2193 (1968) [9, 2790 (1967)]
Spontaneous Magnetostriction of the Compound $MnAu_2$. (E) V. A. Gordienko and V. I. Nikolaev. 9, 2216 (1968) [9, 2820 (1967)]
Theory of Kinetic Phenomena with Low-Temperature Scattering by Optical Phonons. (T) G. É. Mazhuolite. 9, 2219 (1968) [9, 2823 (1967)]
Saturation Magnetization and Néel Temperature of Dilute Ferrite Solid Solutions. (T/E) V. P. Polyakov. 9, 2224 (1968) [9, 2830 (1967)]
Quadrupole Splitting of an NMR Line Caused by Lattice Distortion by Impurity Ions in NaCl-Type Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 9, 2287 (1968) [9, 2909 (1967)]
The Pinch Effect in Intrinsic Semiconductors. (T) I. I. Boiko. 9, 2303 (1968) [9, 2929 (1967)]
Theory of Surface Waves in Solids. (T) S. I. Khankina and V. M. Yakovenko. 9, 2313 (1968) [9, 2943 (1967)]
Magnetic Fields at Tin Nuclei in a Manganese Ferrite. (E) G. V. Novikov, V. A. Trukhtanov, S. I. Yushchuk, and N. A. Grigoryan. 9, 2350 (1968) [9, 2988 (1967)]
Frequency and Size Resonances in Excitation of Elastic Waves. (T) K. B. Vlasov and V. G. Kuleev. 9, 2386 (1968) [9, 3022 (1967)]
Magnetic Structure of the Hexaferrite $Ba_2Me_2Fe_{24}O_{41}$ (Me_2Z). (E) I. I. Petrova, M. A. Vinnik, and L. N. Grigor'eva. 9, 2389 (1968) [9, 3026 (1967)]
Relationship between Transport Coefficients in a Strong Magnetic Field. (T) A. L. Éfros. 9, 2394 (1968) [9, 3031 (1967)]
Insulator–Metal Phase Transitions in Antiferromagnets. (T) L. N. Bulaevskii and D. I. Khomskii. 9, 2422 (1968) [9, 3070 (1967)]
Study of the Magnetic Properties of a System of $BiMnO_3$–$CaMnO_3$ Solid Solutions in a Pulsed Magnetic Field of 160 kOe. (E) A. T. Starovoitov. 9, 2472 (1968) [9, 3136 (1967)]
Rotation of the Plane of Polarization of Light and Magnetic Circular Dichroism in Ferrimagnetic $RbNiF_3$. (E) R. V. Pisarev, I. G. Sinii, and G. A. Smolenskii. 9, 2482 (1968) [9, 3149 (1967)]
Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3198 (1967)]
Ferrimagnetism of Hexagonal Ferrites. (E) T. M. Perekalina and V. P. Cheparin. 9, 2524 (1968) [9, 3205 (1967)]
Saturation of Inhomogeneously Broadened Magnetic Resonance Lines in Solids. (T) O. P. Zhidkov. 9, 2543 (1968) [9, 3229 (1967)]
Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]
Magnetic Dipole Radiation of a Magnet. (T) V. G. Bar'yakhtar and A. G. Kvirikadze. 9, 2569 (1968) [9, 3264 (1967)]

Antiferromagnets in Strong Magnetic Fields. (T/E) M. A. Savchenko and V. V. Tarasenko. 9, 2584 (1968) [9, 3284 (1967)]
Moments of EPR Lines in Systems with Dominant Exchange Interaction. (T) S. M. Ryabchenko and L. A. Shul'man. 9, 2595 (1968) [9, 3298 (1967)]
Instability of Spin Waves in an Antiferromagnet Having an "Easy Axis" Anisotropy. Linear Approximation. (T) Yu. M. Yakovlev. 9, 2614 (1968) [9, 3323 (1967)]
Piezomagnetoresistance of n-Type Ge for a Mixed Scattering Mechanism. (E) A. L. Lipin, V. S. L'vov, and T. V. Smirnova. 9, 2628 (1968) [9, 3339 (1967)]
Nonlinear Relationship between Current and Electric Field under Shubnikov-de Haas Effect Conditions. (T) V. M. Nabutovskii. 9, 2632 (1968) [9, 3342 (1967)]
EPR Line Shape and Acoustic Magnetic Resonance of Cr^{3+} in Al_2O_3 in the Presence of an Electric Field. (T) U. Kh. Kopvillem and B. P. Smolyakov. 9, 2664 (1968) [9, 3375 (1967)]
Resonance Absorption of Sound Waves in Iron Garnet Single Crystals. (E/T) K. V. Goncharov, V. A. Krasil'nikov, and V. I. Uchastkin. 9, 2671 (1968) [9, 3384 (1967)]
Spin Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]
Elastic and Magnetic Fields around Dislocations in Ferromagnets. (T) A. M. Kosevich and É. P. Fel'dman. 9, 2696 (1968) [9, 3415 (1967)]
Production of Current Carriers from Excitons by Charge Transfer in Anthracene. (T/E) E. L. Frankevich and I. A. Sokolik. 9, 2715 (1968) [9, 3441 (1967)]
Quantum Theory of the Hall Effect in Semimetals Having an Equal Number of Electrons and Holes. (T) A. L. Éfros. 9, 2725 (1968) [9, 3456 (1967)]
Coupled Magnetoelastic Waves in Antiferromagnets. (T) V. V. Gann. 9, 2734 (1968) [9, 3467 (1967)]
Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2743 (1968) [9, 3479 (1967)]
Application of Schwinger's Variational Principle to the Calculation of Kinetic Coefficients. (T) P. A. Kazlauskas and I. B. Levinson. 9, 2760 (1968) [9, 3504 (1967)]
Influence of the Adsorption of Oxygen on the Hall Effect and Electrical Conductivity of Thin Nickel Films. (E) O. A. Panchenko and Yu. G. Ptushinskii. 9, 2782 (1968) [9, 3533 (1967)]
Coupled Electromagnetic, Plasma, and Spin Waves in Helicoidal Magnetic Structures in a Magnetic Fields. (T) É. M. Pikalev and M. A. Savchenko. 9, 2817 (1968) [9, 3579 (1967)]
Reversal of Magnetic Sublattices in Yttrium Orthoferrite. (E) A. T. Starovoitov and V. A. Bokov. 9, 2869 (1968) [9, 3637 (1967)]
Study of the Low-Temperature Specific Heat of Cobalt Chromite (E) A. S. Shubanov and N. A. Smol'kov. 9, 2910 (1968) [9, 3676 (1967)]

MASERS AND LASERS

GaAs Semiconductor Laser Optically Excited by Radiation Having Energy Close to the Forbidden Band Width. (E/T) N. G. Basov, A. Z. Grasyuk, V. F. Efimkov, and V. A. Katulin. 9, 65 (1967) [9, 88 (1967)]
Utilization of a Laser to Measure the Lifetime of Excess Carriers in Gallium Arsenide Single Crystals. (E) A. V. Dudenkova and V. V. Nikitin. 9, 664 (1967) [9, 851 (1967)]
Carrier Density in a Semiconductor Illuminated with a Laser. (E) L. M. Blinov, V. S. Vavilov, and G. N. Galkin. 9, 666 (1967) [9, 854 (1967)]
Polarization of the Radiation from a Ruby Laser. (T/E) A. I. Alekseev and Yu. P. Nikitin. 9, 1024 (1967) [9, 1309 (1967)]
Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]
Nonlinear Optical Properties of Triglycine Sulfate Single Crystals. (E) A. S. Sonin and V. S. Suvorov. 9, 1437 (1967) [9, 1829 (1967)]
Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. (T) E. D. Trifonov, A. S. Troshin, and É. E. Fradkin. 9, 1617 (1968) [9, 2061 (1967)]
Relationship between the Damage of Ruby Crystals during Laser Emission and the Optical Homogeneity. (E) E. M. Akulenok, V. S. Papkov, and V. Ya. Khaimov-Mal'kov. 9, 1627 (1968) [9, 2075 (1967)]
Second Harmonic Generation in Crystals of RbH_2AsO_4 (RDA) without Birefringence. (E) V. S. Suvorov and A. A. Filimonov. 9, 1674 (1968) [9, 2131 (1967)]
Mechanism of the Interaction between a Laser Light Beam and Light-Sensitive Glass. (E) L. I. Mirkin, N. F. Pilipetskii, and É. M. Rabinovich. 9, 1877 (1968) [9, 2400 (1967)]
Dependence of the Intensity of Stimulated Mandel'shtam-Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Ryskov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]

MATHEMATICAL PHYSICS

Multiple-Time Uncoupling for Correlation Functions. (T/E) S. I. Kubarev. 9, 305 (1967) [9, 400 (1967)]
Calculation of Tensor Quantities on Electronic Digital Computers. (T) I. I. Smyslov. 9, 820 (1967) [9, 1047 (1967)]
Nonlinear Effects in a Ferromagnet. (T) V. M. Genkin. 9, 864 (1967) [9, 1106 (1967)]
Interaction of Spin Waves and Polarons in a Ferromangetic Dielectric. (T) É. G. Petrov. 9, 867 (1967) [9, 1109 (1967)]
Spin-Lattice Relaxation in Kramers Systems. (T/E) I. V. Aleksandrov and K. K. Pukhov. 9, 906 (1967) [9, 1159 (1967)]
Jahn-Teller Effect in the Ground State of the V^{2+} Ion in Fluorite Taking Covalency into Account. (T) L. K. Aminov and B. Z. Malkin. 9, 1030 (1967) [9, 1316 (1967)]
Absorption of Light in the Presence of Polarons. (T) E. M. Kuznetsova. 9, 1166 (1967) [9, 1493 (1967)]
Optical Effective Mass of Electrons in Metals. (T) Sh. M. Kogan. 9, 1180 (1967) [9, 1510 (1967)]
Theory of Paramagnetic Absorption in an Isolated Spin-System. (T) A. A. Samokhin. 9, 1257 (1967) [9, 1597 (1967)]
Spin-Lattice Relaxation of Localized Electron Centers with Hyperfine Interaction. (T) M. F. Deigen and I. I. Zheru. 9, 1320 (1967) [9, 1679 (1967)]
Theory of Fourth-Order Nonlinear Optical Effects in the Exciton Region of the Spectrum. (T) B. S. Toshich. 9, 1346 (1967) [9, 1713 (1967)]
The Spin-Phonon Interaction of Electrons and the Oscillations of the Longitudinal Magnetoresistance in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. 9, 1394 (1967) [9, 1780 (1967)]
Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 9, 1560 (1968) [9, 1983 (1967)]
Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1566 (1968) [9, 1991 (1967)]
Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. (T) E. D. Trifonov, A. S. Troshin, and É. E. Fradkin. 9, 1617 (1968) [9, 2061 (1967)]
Scattering of High-Energy Particles Incident on a Solid at an Angle Close to $\pi/2$. (T) O. B. Firsov. 9, 1687 (1968) [9, 2145 (1967)]
Coherent Effects in Crystals Containing Electron Impurity Centers. (T) M. A. Ivanov. 9, 1731 (1968) [9, 2306 (1967)]
Exciton-Phonon Interaction in One-Dimensional Molecular Crystals. (T) A. S. Davydov and B. M. Nitsovich. 9, 1749 (1968) [9, 2330 (1967)]
Spin-Cyclotron-Phonon Resonance in Semiconductors. (T) A. Yu. Matulis. 9, 1755 (1968) [9, 2338 (1967)]
Simple and Single Spin Waves in Ferromagnets. (T) I. A. Akhiezer and A. E. Borovik. 9, 1798 (1968) [9, 2295 (1967)]

An Operational Definition of Spin Temperature (T) V. N. Tropinin. 9, 1803 (1968) [9, 2302 (1967)]
Polarization of Spins by Hot Electrons in a Quantizing Magnetic Field. (T/E) A. K. Zvezdin. 9, 1843 (1968) [9, 2354 (1967)]
Determination of the Zero-Slope Point. (T) N. V. Kudryavtseva. 9, 1850 (1968) [9, 2364 (1967)]
Magnon-Phonon Interaction in Cubic Crystals. (T) V. S. Tumanov. 9, 1854 (1968) [9, 2369 (1967)]
Line Shape for the Characteristic Energy Losses of Electrons in Solids. (T) V. V. Rumyantsev. 9, 1860 (1968) [9, 2377 (1967)]
Reduction of the Slater Parameters for an Impurity Ion. (T) V. V. Druzhinin. 9, 1938 (1968) [9, 2463 (1967)]
Anomalous Properties of Conduction Electrons near the Curie Point. (T) É. L. Nagaev. 9, 1942 (1968) [9, 2469 (1967)]
Longitudinal Relaxation of Electric Dipoles in Crystals. (T) R. V. Saburova. 9, 1949 (1968) [9, 2478 (1967)]
A Tensor for the Nonlinear Polarizability of a Ferromagnetic Metal. (T) V. M. Genkin and G. M. Genkin. 9, 1981 (1968) [9, 2517 (1967)]
The Fluctuations and Scattering Processes of Slow Neutrons and Light in Antiferromagnets in a Strong Magnetic Field. (T) I. A. Akhiezer and Yu. L. Bolotin. 9, 2016 (1968) [9, 2559 (1967)]
Equations of Motion for the Magnetization and Equations for the Temperature Change in a Ferrodielectric. (T) É. G. Petrov and A. A. Yatsenko. 9, 2022 (1968) [9, 2568 (1967)]
Microscopic Theory of Diffusion in Crystalline Solid Solutions and the Time Evolution of the Diffuse Scattering of X Rays and Thermal Neutrons. (T) A. G. Khachaturyan. 9, 2040 (1968) [9, 2594 (1967)]
Double Electron-Nuclear Magnetoacoustic Resonance at Localized Electronic Centers. (T) M. F. Deigen and I. I. Zheru. 9, 2053 (1968) [9, 2611 (1967)]
Electroluminescence Transport Equations and the Investigation of These Equations Using a Two-Stage Model. (T) E. Yu. L'vova. 9, 2068 (1968) [9, 2630 (1967)]
Magnetic Crystallographic Anisotropy of Indium-Substituted Yttrium Garnets. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 2124 (1968) [9, 2707 (1967)]
Theory of Cyclotron Echo. (T) Ya. Ya. Asadullin and U. Kh. Kopvillem. 9, 2150 (1968) [9, 2737 (1967)]
Theoretical Analysis of the Interaction Energy of Interstitial Atoms in Connection with Elastic Deformations of the Crystal Lattice. (T) A. G. Khachaturyan. 9, 2249 (1968) [9, 2861 (1967)]
Effect of the Exchange Interaction of Magnetic Ions on the Intensities of Mössbauer Spectra. (T) Sh. Sh. Bashkirov and G. Ya. Selyutin. 9, 2284 (1968) [9, 2904 (1967)]
A Comparison of Fundamental Theories on Polarization of Ionic Crystals. (T) S. N. Kotkov. 9, 2292 (1968) [9, 2915 (1967)]
Paramagnetic Resonance Spectrum with the Electron-Phonon Interaction Taken into Consideration in the Case of Weak Coupling. (T) N. G. Koloskova and B. I. Kochelaev. 9, 2317 (1968) [9, 2948 (1967)]
Two-Magnon Combination Scattering of Light in Magnetically Ordered Dielectrics. (T) V. S. L'vov. 9, 2328 (1968) [9, 2963 (1967)]
Temperature Dependence of the Cubic Splitting of EPR Spectra of Eu^{2+} Ions in CaF_2-Type Crystals. (E) T. Rewaj. 9, 2340 (1968) [9, 2978 (1967)]
EPR of Nickel and Iron Ions in CaF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2344 (1968) [9, 2983 (1967)]
Detection of V^{2+} in SrF_2. (E) M. M. Zaripov, V. S. Kropotov, L. D. Livanova, and V. G. Stepanov. 9, 2346 (1968) [9, 2984 (1967)]
Theoretical Determination of the Stacking-Fault Energy in Nontransition Metals. (T) G. L. Krasko, V. N. Teliyants, R. T. Pozvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]
A Method for Determining the Conduction Band Structure and the Effective Mass of Electrons in Crystals from Electron-Nuclear Double Resonance Data. (T/E) V. G. Grachev, M. F. Deigen, and S. I. Pekar. 9, 2489 (1968) [9, 3157 (1967)]
Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3198 (1967)]
Saturation of Inhomogeneously Broadened Magnetic Resonance Lines in Solids. (T) O. P. Zhidkov. 9, 2543 (1968) [9, 3229 (1967)]
Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]
Spatial Oscillations of Spin Density and Nuclear Magnetic Resonance in $RbCoF_3$. (T) M. P. Petrov and G. M. Nedlin. 9, 2556 (1968) [9, 3246 (1967)]
Antiferromagnets in Strong Magnetic Fields. (T/E) M. A. Savchenko and V. V. Tarasenko. 9, 2584 (1968) [9, 3284 (1967)]
Moments of EPR Lines in Systems with Dominant Exchange Interaction. (T) S. M. Ryabchenko and L. A. Shul'man. 9 2595 (1968) [9, 3298 (1967)]
Instability of Spin Waves in an Antiferromagnet Having an "Easy Axis" Anisotropy. Linear Approximation. (T) Yu. M. Yakovlev. 9, 2614 (1968) [9, 3323 (1967)]
Relaxation of Localized Vibrational Excitation in a Crystal. (T) E. D. Trifonov. 9, 2680 (1968) [9, 3395 (1967)]
Spin Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]
Elastic and Magnetic Fields around Dislocations in Ferromagnets. (T) A. M. Kosevich and É. P. Fel'dman. 9, 2696 (1968) [9, 3415 (1967)]
Extension of the Applicability Limit of the Theory of Low Mobility. (T) I. E. Lang and Yu. A. Firsov. 9, 2701 (1968) [9, 3422 (1967)]
Coupled Magnetoelastic Waves in Antiferromagnets. (T) V. V. Gann. 9, 2734 (1968) [9, 3467 (1967)]
Coupled Electromagnetic, Plasma, and Spin Waves in Helicoidal Magnetic Structures in a Magnetic Fields. (T) É. M. Pikalev and M. A. Savchenko. 9, 2817 (1968) [9, 3579 (1967)]
Stability of a Static Electric Inhomogeneity in a Semiconductor Possessing a Negative Differential Resistivity. (T) G. F. Karavaev. 9, 2836 (1968) [9, 3604 (1967)]

METALS

Temperature and Field Dependence of the Knight Shift in Metals and Semiconductors. (T) D. A. Zhogolev. 9, 42 (1967) [9, 59 (1967)]
Magnetic Properties of an FeRh Alloy in Strong Magnetic Fields. (E) É. A. Zavadskii and I. G. Fakidov. 9, 103 (1967) [9, 139 (1967)]
A Theoretical Examination of Hyperfine Structure Splitting Matrix Shifts in Cu, Ag, and Au Atoms Stabilized in a Polar Matrix (H_2O). (T/E) R. A. Zhitnikov and N. V. Kolesnikov. 9, 121 (1967) [9, 162 (1967)]
Stabilization of Quenched-In Stacking Fault Tetrahedra in Copper Containing Aluminum as an Impurity. (E) V. N. Rozhanskii, V. V. Kirichenko, and A. A. Predvoditelev. 9, 131 (1967) [9, 175 (1967)]
Theory of Interband Magnetic Breakdown in Metals. (T) A. A. Slutskin and A. M. Kadigrobov. 9, 138 (1967) [9, 184 (1967)]
Microhardness and the Absorption of Ultrasound in Ternary Alloys of Bismuth with Tellurium and Tin. (E) V. V. Nekrasov. 9, 314 (1967) [9, 411 (1967)]
Decomposition of a Solid Solution of Gold in Silicon. (E) Yu. I. Koslov and R. Sh. Malkovich. 9, 384 (1967) [9, 504 (1967)]
Some Integral Relationships between $\sigma_{xx}(H_z)$ and $\sigma_{xy}(H_z)$ for Bismuth-Type Metals. (T) Yu. A. Pospelov. 9, 451 (1967) [9, 589 (1967)]
Hall Effect in an Invar Alloy at Low Temperatures. (E) E. P. Svirina and Yu. V. Nemchinov. 9, 553 (1967) [9, 704 (1967)]
Theory of the Electrical Resistivity of Metals Arising from Dislocations. (T) V. Ya. Kravchenko. 9, 653 (1967) [9, 836 (1967)]
A Possibility of Determining the Optical Parameters of Metals. (E/T) N. A. Korkhmazyan. 9, 870 (1967) [9, 1113 (1967)]
The Compressibility of Metals. (T) M. B. Gitis. 9, 924 (1967) [9, 1183 (1967)]

Change in the Block Structure of Aluminum during Creep. (E) M. M. Myshlyaev. 9, 937 (1967) [9, 1203 (1967)]

Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]

Discrete Absorption by 4d Electrons in the Lanthanum Group Rare-Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]

Penetration of Hydrogen Ions into Copper. (E) E. M. Zarutskii. 9, 1172 (1967) [9, 1500 (1967)]

Optical Effective Mass of Electrons in Metals. (T) Sh. M. Kogan. 9, 1180 (1967) [9, 1510 (1967)]

Theory of a Dielectric–Metal Contact. (T) B. L. Timan. 9, 1191 (1967) [9, 1521 (1967)]

Vacancy Formation and the Thermal Expansion of Platinum. (E) Ya. A. Kraftmakher. 9, 1197 (1967) [9, 1528 (1967)]

Measurement of the Electrical Resistance of Bismuth during Programmed Loading. (E) R. I. Garber, I. A. Gindin, and I. M. Nekiyudov. 9, 1224 (1967) [9, 1554 (1967)]

Electrical Properties of Solid Solutions of Carbides of the Transition Metals of Groups IV and V. (E) O. A. Golikova, Ż. O. Dzhafarov, A. I. Avgustinnik, L. V. Kudryashova, and S. S. Ordan'yan. 9, 1228 (1967) [9, 1557 (1967)]

Paramagnetic Resonance of Conduction Electrons in Silicon–Germanium Alloys. (E) I. G. Gverdtsiteli, L. N. Aleksandrov, and V. V. Boiko. 9, 1328 (1967) [9, 1690 (1967)]

Mechanism of Current Conduction in Thin-Film Metal-Dielectric–Metal Structures. (E) A. E. Gershinskii and Ż. G. Kostaev. 9, 1332 (1967) [9, 1695 (1967)]

Diffraction Contrast from γ-Phase Precipitates Formed in the Late Stages of Decomposition of the Solid Solution Cu–2% Be. (E) L.M. Sorokin. 9, 1353 (1967) [9, 1723 (1967)]

Zener Relaxation Effect in Cu–Zn–Al Ternary Alloys. (E) K. M. Shtrakhman. 9, 1360 (1967) [9, 1732 (1967)]

Electron Paramagnetic Resonance of Phthalocyanines of Rare Earth Elements. (E) I. S. Kirin, Yu. L. Shelekhin, and P. N. Moskalev. 9, 1461 (1967) [9, 1852 (1967)]

Investigation of the Domain Structure of "Hypercritical" Permalloy Films by the Magnetooptical Method. (E) G. S. Krinchik, A. N. Verkhozin, and S. A. Gushchina. 9, 1812 (1968) [9, 2314 (1967)]

Magnetocrystalline Anisotropy of Hexagonal Ferrite Single Crystals of the System $Ba_3Co_xZn_{2-x}Fe_{11}O_{22}$. (E) N. N. Agapova and T. M. Perekalina. 9, 1825 (1968) [9, 2330 (1967)]

The Deformation of Polycrystalline Iron within the Yield Plateau. (E) L. G. Orlov. 9, 1828 (1968) [9, 2334 (1967)]

Dependence of the Sputtering Coefficients of Polycrystalline Targets on the Angle of Incidence of Ions. (E) I. N. Evdokimov and V. A. Molchanov. 9, 1967 (1968) [9, 2503 (1967)]

A Tensor for the Nonlinear Polarizability of a Ferromagnetic Metal. (T) V. M. Genkin and G. M. Genkin. 9, 1981 (1968) [9, 2517 (1967)]

Determination of the Size of Regions of Concentration Inhomogeneity in Certain Single-Phase Silver-Base Alloys from Measurements of the Zener Relaxation. (E) K. M. Shtrakhman and Yu. V. Pigusov. 9, 2034 (1968) [9, 2586 (1967)]

Monomolecular Semiconductor Layers on Metals. (T) L. N. Dobretsov. 9, 2177 (1968) [9, 2769 (1967)]

The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

Sputtering of Metal Carbides with Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2232 (1968) [9, 2839 (1967)]

Investigation of the Kinetics of Growth of an Oxide Film on the Surface of Indium. (E) L. A. Ageev and I. N. Shklyarevskii. 9, 2324 (1968) [9, 2958 (1967)]

Anomalous Decrease of the Electrical Resistivity of Metallic Chromium Due to Alloying with Vanadium and Titanium. (E) M. V. Vedernikov. 9, 2381 (1968) [9, 3018 (1967)]

Theoretical Determination of the Stacking-Fault Energy in Non-transition Metals. (T) G. L. Krasko, V. N. Teliyants, R. T. Pozvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]

Insulator–Metal Phase Transitions in Antiferromagnets. (T) L. N. Bulaevskii and D. I. Khomskii. 9, 2422 (1968) [9, 3070 (1967)]

Mössbauer and X-Ray Investigations of a Finely Divided Fe + 12 at. % Ni Alloy. (E) M. Ya. Gen, I. V. Eremina, V. A. Koltun, E. F. Makarov, V. A. Povitskii, and I. P. Suzdalev. 9, 2476 (1968) [9, 3141 (1967)]

Formation of Metallic Modifications of Germanium and Silicon under Shock Loading. (E) M. N. Pavlovskii. 9, 2514 (1968) [9, 3192 (1967)]

Investigation of $\alpha \rightleftharpoons \beta$ Transition in GeTe–SnTe Alloys at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 9, 2527 (1968) [9, 3208 (1967)]

Crystallization of Levitating Metals. (E) A. A. Fogel', T. A. Sidorova, Z. A. Guts, and M. M. Mezdrogina. 9, 2636 (1968) [9, 3346 (1967)]

Specific Heat of Tungsten-Rhenium Alloy VR-20 in the 1600–2900°K Range. (E) K. S. Sukhovei. 9, 2893 (1968) [9, 3660 (1967)]

NUCLEAR MAGNETIC RESONANCE

Investigation of the Diffusion of Fluorine Atoms in a LaF_3 Single Crystal Using the Nuclear Resonance Method. (E) A. G. Lundin, S. P. Gabuda, and A. I. Lifshits. 9, 273 (1967) [9, 357 (1967)]

Fine Structure of the Dipole Nuclear Acoustic Resonance of Al^{27} in Ruby. (E/T) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, and U. Kh. Kopvillem. 9, 276 (1967) [9, 361 (1967)]

Fast Adiabatic Passage in Nuclear Magnetic Resonance. (T) A. I. Zhernovoi. 9, 523 (1967) [9, 673 (1967)]

"Rotary" Saturation in NMR. (T/E) A. A. Samokhin. 9, 752 (1967) [9, 956 (1967)]

NMR and Ferroelectric Properties of Sodium Hydroselenite Mixed Crystals. (E) G. V. Gavrilova-Podol'skaya, S. P. Gabuda, and A. G. Lundin. 9, 911 (1967) [9, 1166 (1967)]

Ultrasonic Excitation of Magnetic Dipole Transitions of F^{19} Nuclei in LiF Single Crystals. (E) V. A. Shutilov and G. L. Antokol'skii. 9, 958 (1967) [9, 1231 (1967)]

Observation of the NMR of Al^{27} in Corundum Due to Transitions with $\Delta m = \pm 2$. (E) V. N. Yastrebov. 9, 1226 (1967) [9, 1555 (1967)]

Shape of NMR Line for a Two-Spin and Nonresonant-Dipole System. (T/E) B. M. Moiseev and L. I. Fedorov. 9, 1867 (1968) [9, 2387 (1967)]

Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Aver'yanov. 9, 1899 (1968) [9, 2428 (1967)]

Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Sazonov. 9, 2096 (1968) [9, 2670 (1967)]

Spatial Oscillations of Spin Density and Nuclear Magnetic Resonance in $RbCoF_3$. (T) M. P. Petrov and G. M. Nedlin. 9, 2556 (1968) [9, 3246 (1967)]

Influence of the Distribution of Correlation Times in Polymers on the NMR Line Width. (T/E) V. P. Grigor'ev, V. M. Lantsov, A. I. Maklakov, and A. A. Lantsova. 9, 2867 (1968) [9, 3635 (1967)]

OPTICAL PROPERTIES, EFFECTS, AND TECHNIQUES

Theory of the Photoelectric Effect in Finite Crystals at High Frequencies and in the Presence of an External Magnetic Field. (T) L. É. Gurevich and A. A. Rumyantsev. 9, 55 (1967) [9, 75 (1967)]

Dielectric and Optical Investigations of the Irreversible Ferroelectric Phase Transition in $K_4Fe(CN)_6 \cdot 3H_2O$ Crystals. (E) A. Ya. Krasnikova, V. A. Koptsik, B. A. Strukov, and Wang Ming. 9, 85 (1967) [9, 116 (1967)]

Dispersion of the Index of Refraction of Gallium Phosphide. (T/E) A. N. Pikhtin and D. A. Yas'kov. 9, 107 (1967) [9, 145 (1967)]

Optical Strength of Transparent Dielectrics. (E) B. M. Ashkinadze, N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 362 (1967) [9, 476 (1967)]

Spatial Dispersion Effects in Gyrotropic Crystals. (E/T) V. A. Kizel', Yu. I. Krasilov, and V. N. Shamraev. 9, 571 (1967) [9, 728 (1967)]

Investigation of the Mechanism of Optical Damage of Lithium Fluoride Single Crystals. (E) N. V. Volkova, V. A. Likhachev M. I. Stepanov, and L. M. Shestopalov. 9, 609 (1967) [9, 778 (1967)]

Magnetooptical Oscillations of Absorption in Germanium Crystals Free of Mechanical Stresses. (E) A. V. Varfolomeev, B. P. Zakharchenya, and R. P. Seisyan. 9, 847 (1967) [9, 1085 (1967)]

A Possibility of Determining the Optical Parameters of Metals. (E/T) N. A. Korkhmazyan. 9, 870 (1967) [9, 1113 (1967)]

Electrooptical and Elastooptical Properties of Alkali Metal Dihydrogen Arsenates. (E) A. S. Vasilevskaya, A. S. Sonin, and I. S. Rez. 9, 986 (1967) [9, 1260 (1967)]

Correction to the Paper of L. I. Korovin and E. V. Kharitonov "Theory of the Form of the Interband Magnetooptical Absorption Lines for the Case of Elastic Scattering." (T) L. I. Korovin and E. V. Kharitonov. 9, 988 (1967) [9, 1626 (1967)]

Optical Activity of Deformed Crystals. (T) V. S. L'vov. 9, 1000 (1967) [9, 1273 (1967)]

A Diffractometer Investigation of the Structure of Amorphous Gallium Using Electron Diffraction with a Retarding Field. (E) B. T. Boiko, L. S. Palatnik, and A. S. Derevyanchenko. 9, 1278 (1967) [9, 1625 (1967)]

Theory of Fourth-Order Nonlinear Optical Effects in the Exciton Region of the Spectrum. (T) B. S. Toshich. 9, 1346 (1967) [9, 1713 (1967)]

Nonlinear Optical Properties of Triglycine Sulfate Single Crystals. (E) A. S. Sonin and V. S. Suvorov. 9, 1437 (1967) [9, 1829(1967)]

Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (196) [9, 1868 (1967)]

Energies and Intensities of Electron Transitions in $RbCoF_3$. (E) R. V. Pisarev and S. D. Prokhorova. 9, 1482 (1968) [9, 1879 (1967)]

Electrooptical Properties of Triglycine Sulfate. (E) A. S. Sonin and A. S. Vasilevskaya. 9, 1536 (1968) [9, 1951 (1967)]

Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1566 (1968) [9, 1991 (1967)]

Optical Determination of the Elastic Limit of Sodium Chloride Single Crystals in the Liquid-Helium Temperature Range. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 1720 (1968) [9, 2190 (1967)]

Experimental Investigation of the Optical Properties and of the Nonlinear Absorption Mechanism of Glass Containing Cadmium Selenide. (E) A. M. Bonch-Bruevich, T. K. Razumova, and G. M. Rubanova. 9, 1776 (1968) [9, 2265 (1967)]

Mixing of Two Frequencies of Light by Free Current Carriers in Semiconductors Possessing Nonparabolic and Nonspherical Energy Surfaces. (T) A. A. Grinberg. 9, 2004 (1968) [9, 2544 (1967)]

Optical Elastic Limit of Lithium Fluoride Single Crystals in the Temperature Range 300-1.4°K. (E) O. V. Klyavin, Yu. M. Chernov, and A. V. Stepanov. 9, 2008 (1968) [9, 2549 (1967)]

Theory of Light Absorption and Emission by Impurity Centers in Paramagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 2114 (1968) [9, 2693 (1967)]

Criteria of the Optical Strength of Transparent Dielectrics. (T/E) V. I. Vladimirov. 9, 2204 (1968) [9, 2804 (1967)]

Theory of Kinetic Phenomena with Low-Temperature Scattering by Optical Phonons. (T) G. É. Mazhuolite. 9, 2219 (1968) [9, 2823 (1967)]

Investigation of the Kinetics of Growth of an Oxide Film on the Surface of Indium. (E) L. A. Agaev and I. N. Shklyarevskii. 9, 2324 (1968) [9, 2958 (1967)]

Optical Spectrum of a CaF_2:Sm^{2+} Crystal. (E) G. A. Zvereva and V. P. Makarov. 9, 2356 (1968) [9, 2994 (1967)]

Rotation of the Plane of Polarization of Light and Magnetic Circular Dichroism in Ferrimagnetic $RbNiF_3$. (E) R. V. Pisarev, I. G. Sinii, and G. A. Smolenskii. 9, 2482 (1968) [9, 3149 (1967)]

Spontaneous Electrooptical Effect in Crystals of Lithium Niobate. (E) A. S. Sonin and L. G. Lomova. 9, 2607 (1968) [9, 3315 (1967)]

Relaxation of Localized Vibrational Excitation in a Crystal. (T) E. D. Trifonov. 9, 2680 (1968) [9, 3395 (1967)]

Optical Spectrum of Fe^{2+} in Sphalerite. (E) A. S. Marfunin, A. N. Platonov, and V. E. Fedorov. 9, 2847 (1968) [9, 3616 (1967)]

Nonlinear Reflection of Light from Thin Silver Films. (E) G. V. Krivoshchekov and V. I. Stroganov. 9, 2856 (1968) [9, 3625(1967)]

Optical Width of the Forbidden Band in PbTe–PbS Solutions. (E) S. Kasimov, A. R. Regel', and V. K. Subashiev. 9, 2885 (1968) [9, 3653 (1967)]

Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]

PHOTOCHEMICAL EFFECTS

Coalescence of F Centers in Photochemically Colored NaCl and KCl Crystals Containing Anion Impurities. (E) N. A. Tsal', M. V. Pashkovskii, and R. I. Didyk. 9, 175 (1967) [9, 237 (1967)]

Photochemical Transformations of Radiophosphorus in Single Crystals of Potassium Chloride. (E) R. V. Bogdanov and A. N. Murin. 9, 180 (1967) [9, 243 (1967)]

Effect of Deformation by Ultrasound on the Photosensitivity of Silver Chloride Crystals. (E) O. P. Golovko, N. A. Tyapunina, and M. P. Shaskol'skaya. 9, 1887 (1968) [9, 2414 (1967)]

Luminescence of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]

Hole Injection in Anthracene from an Electrolyte and Space-Charge Limitation of Current. (E) V. Yu. Litvinenko and V. M. Fridkin. 9, 2845 (1968) [9, 3615 (1967)]

PHOTOCONDUCTIVITY

Fluctuation Levels in the Glassy Semiconductor $Tl_2Se \cdot As_2Te_3$. (E) B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov. 9, 19 (1967) [9, 27 (1967)]

Interaction of Excitons in Anthracene. (E) N. A. Tolstoi and A. P. Abramov. 9, 255 (1967) [9, 340 (1967)]

Determination of the Lifetime and Mobility of Nonequilibrium Holes in Cadmium Sulfide Single Crystals. (E) V. E. Lashkarev, V. K. Malyutenko, and V. A. Romanov. 9, 323 (1967) [9, 422 (1967)]

Two-Photon Photoconductivity in CdS Excited with Giant Pulses from Ruby Laser. (E) B. M. Ashkinadze, A. A. Grinberg, S. M. Ryvkin, and I. D. Yaroshetskii. 9, 461 (1967) [9, 601 (1967)]

Utilization of a Laser to Measure the Lifetime of Excess Carriers in Gallium Arsenide Single Crystals. (E) A. V. Dudenkova and V. V. Nikitin. 9, 664 (1967) [9, 851 (1967)]

Photoconductivity of Amorphous Selenium Films at 10^{10} cps. (E) Yu. A. Cherkasov and L. N. Ionov. 9, 722 (1967) [9, 930 (1967)]

Characteristics of the Electric Pinch Effect in Many-Valley Bipolar Semiconductors. (T/E) Z. S. Gribnikov and É. I. Rashba. 9, 760 (1967) [9, 967 (1967)]

Photoconductivity and Recombination of Triplet Excitons in Anthracene. (E) E. L. Frankevich and I. A. Sokolik. 9, 1532 (1968) [9, 1945 (1967)]

Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]

Surface Properties of Silicon after Irradiation with Ions Having Moderate Energies. (E) P. V. Pavlov and Yu. S. Popov. 9, 2431 (1968) [9, 3082 (1967)]

Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]

Determination of the Radiative Yield of the Electron Capture by Sensitizing Recombination Centers in CdSe. (E) G. L. Belen'kii, I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2626 (1968) [9, 3337 (1967)]

Production of Current Carriers from Excitons by Charge Transfer in Anthracene. (T/E) E. L. Frankevich and I. A. Sokolik. 9, 2715 (1968) [9, 3441 (1967)]

PHOTOELECTRIC PROPERTIES AND EFFECTS

Theory of the Photoelectric Effect in Finite Crystals at High Frequencies and in the Presence of an External Magnetic Field. (T) L. É. Gurevich and A. A. Rumyantsev. 9, 55 (1967) [9, 75 (1967)]

Sign of the Photoadsorption Effect in Semiconductors during the Absorption of Light by the Exciton Mechanism. (T) F. F. Vol'kenshtein and I. V. Karpenko. 9, 308 (1967) [9, 403 (1967)]

The Photodielectric Effect in Compensated Germanium. (E) N. S. Kasperovich, B. M. Nikolaev, and Ya. A. Oksman. 9, 343 (1967) [9, 449 (1967)]

Thermally Stimulated Current Method under Photoelectret Conditions. (E) D. G. Semak, D. V. Chepur, and V. F. Zolotarev. 9, 966 (1967) [9, 1242 (1967)]

High-Voltage Photo-emf Effect in Amorphous Films of Sb_2S_3. (E) I. A. Karpovich, M. V. Shilova, and K. N. Akatova. 9, 2377 (1968) [9, 3014 (1967)]

Photoelectric Properties of the Aluminum–Aluminum Oxide–Gold Film System. (E) A. L. Musatov. 9, 2580 (1968) [9, 3279 (1967)]

PHOTOLUMINESCENCE

Injection Luminescence of Epitaxial Heterojunctions in the GaP–GaAs System. (E) Zh. I. Alferov, D. Z. Garbuzov, V. S. Grigor'eva, Yu. V. Zhilyaev, L. V. Kradinova, V. I. Korol'kov, E. P. Morozov, O. A. Ninua, E. L. Portnoi, V. D. Prochukhan, and M. K. Trukan. 9, 208 (1967) [9, 279 (1967)]

Luminescence of X-Ray Irradiated KCl · Cu Crystals Caused by Small Deformations. (E) S. Z. Shmurak and M. B. Éliashberg. 9, 1427 (1967) [9, 1818 (1967)]

Investigation of Transport Effects in Electrophotoluminescence. (E) A. V. Burlakov. 9, 1449 (1967) [9, 1840 (1967)]

Luminescence of Mixed ZnS_xCdS_{1-x} Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. V. Zakrevskii, and V. Ya. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]

Luminescence of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]

Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]

Polymorphic Transitions Caused by Crushing of Zinc Sulfide Phosphor Crystals and the Influence of These Transitions on Luminescence Properties. (E) E. A. Poplavskaya, G. G. Kharin, and A. E. Bryukhanov. 9, 2757 (1968) [9, 3501 (1967)]

Nonlinear Dependence of the Luminescence of Cuprous Oxide on the Photoexcitation Intensity. (E) N. A. Tolstoi and A. P. Abramov. 9, 2630 (1968) [9, 3340 (1967)]

Determination of the Radiative Yield of the Electron Capture by Sensitizing Recombination Centers in CdSe. (E) G. L. Belen'kii, I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2626 (1968) [9, 3337 (1967)]

PHOTOMAGNETIC PROPERTIES AND EFFECTS

Determination of the Lifetime and Mobility of Nonequilibrium Holes in Cadmium Sulfide Single Crystals. (E) V. E. Lashkarev, V. K. Malyutenko, and V. A. Romanov. 9, 323 (1967) [9, 422 (1967)]

Quantum Oscillations of the Photomagnetic Effect in n-Type InAs. (E) M. S. Bresler, A. V. Matveenko, and I. I. Farbshtein. 9, 1924 (1968) [9, 2448 (1967)]

Mixing of Two Frequencies of Light by Free Current Carriers in Semiconductors Possessing Nonparabolic and Nonspherical Energy Surfaces. (T) A. A. Grinberg. 9, 2004 (1968) [9, 2544 (1967)]

Theory of the Photomagnetic Effect on Heated Electrons. (T) R. I. Lyagushchenko and I. N. Yassievich. 9, 2794 (1968) [9, 3547 (1967)]

PLASMAS

Modulation of the Charge Density of a Beam Resulting from Interaction with a Plasma in a Solid. (T) G. A. Baramidze and M. G. Pkhakadze. 9, 293 (1967) [9, 382 (1967)]

Cerenkov Radiation of a Modulated Charged Beam in Passing through a Slit in a Solid Body. (T) M. G. Pkhakadze. 9, 301 (1967) [9, 394 (1967)]

Excitation of Electromagnetic Waves in a Solid-State Plasma in the Presence of a Negative Current–Voltage Characteristic. (T) R. R. Kikvidze, A. A. Rukhadze, and E. P. Fetisov. 9, 1055 (1967) [9, 1349 (1967)]

Relation between Dislocations and Microplasmas during Avalanche Breakdown of a p–n Junction in Si. (E) I. V. Grekhov, N. N. Kryukova, and A. I. Novikov. 9, 1439 (1967) [9, 1831 (1967)]

Inelastic Reflection of Plasma Waves from a Metal Boundary. (T) M. A. Mekhtiev. 9, 1645 (1968) [9, 2098 (1967)]

Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. (T) S. L. Ginsburg, O. V. Konstantinov, and V. I. Perel'. 9, 1684 (1968) [9, 2139 (1967)]

Electrical Fluctuations in a Solid-State Plasma in a Strong Electric Field. (T) Sh. M. Kogan and A. Ya. Shul'man. 9, 1771 (1968) [9, 2259 (1967)]

Theory of Acoustic Plasma Waves in Bismuth. (T) O. V. Konstantinov and V. I. Perel'. 9, 2409 (1968) [9, 3051 (1967)]

Coupled Electromagnetic, Plasma, and Spin Waves in Helicoidal Magnetic Structures in a Magnetic Field. (T) É. M. Pikalev and M. A. Savchenko. 9, 2817 (1968) [9, 3579 (1967)]

POLYMERS

Statistical Relationships Governing the Formation of Cracks in Polymethylmethacrylate under the Action of Laser Radiation (E/T) V. I. Vladimirov, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 411 (1967) [9, 539 (1967)]

Mobility of Holes in Films of Organic Polymer Semiconductors. (E) A. V. Vannikov. 9, 1068 (1967) [9, 1367 (1967)]

EPR Studies of Rupture Points in Mechanically Stressed Polyamide Macromolecules. (E/T) V. A. Zakrevskii, É. E. Tomashevskii, and V. V. Baptizmanskii. 9, 1118 (1967) [9, 1434 (1967)]

Influence of Ionizing Radiation on the Electrical and Paramagnetic Properties of Organic Semiconductors Based on Polyvinylacetate. (E) A. D. Grishina, A. V. Vannikov, S. G. Ashin, and N. A. Bakh. 9, 1298 (1967) [9, 1651 (1967)]

Mechanism of Optical Damage of Transparent Polymers. (E) N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. Shestopalov, and I. D. Yaroshetskii. 9, 1473 (1968) [9, 1868 (1967)]

Rotational Mobility of Crystallites in Oriented Kapron (Polycaproiactam). (E) V. S. Kuksenko, S. Nizamidinov, and A. I. Slutsker. 9, 1569 (1968) [9, 1996 (1967)]

Formation of Submicroscopic Cracks in Loaded Oriented Amorphous-Crystalline Polymers. (E) V. S. Kuksenko, A. I. Slutkser, and A. A. Yastrebinskii. 9, 1869 (1968) [9, 2390 (1967)]

Criteria of the Optical Strength of Transparent Dielectrics. (T/E) V. I. Vladimirov. 9, 2204 (1968) [9, 2804 (1967)]

Influence of the Distribution of Correlation Times in Polymers on the NMR Line Width. (T/E) V. P. Grigor'ev, V. M. Lantsov, A. I. Maklakov, and A. A. Lantsova. 9, 2867 (1968) [9, 3635 (1967)]

PROGRESS IN SOLID STATE PHYSICS IN THE USSR

Solid-State Physics in the USSR. On the Occasion of the Fiftieth Anniversary of the Great October Socialist Revolution. (R) 9, 2401 (1968) [9, 3041 (1967)]

QUANTUM MECHANICS

Quantum Theory of the Nernst-Ettingshausen Effect in Semiconductors. (T) A. I. Ansel'm and B. M. Askerov. 9, 22 (1967) [9, 31 (1967)]

Relationship between the Ranges of Fast and Slow Electrons in Alkali-Halide Compounds. (E) L. G. Eliseenko, V. N. Shchemelev, and M. A. Rumsh. 9, 128 (1967) [9, 171 (1967)]

Interaction of Excitons in Anthracene. (E) N. A. Tolstoi and A. P. Abramov. 9, 255 (1967) [9, 340 (1967)]

Modulation of the Charge Density of a Beam Resulting from Interaction with a Plasma in a Solid. (T) G. A. Baramidze and M. G. Phkakadze. 9, 293 (1967) [9, 382 (1967)]

Cerenkov Radiation of a Modulated Charged Beam in Passing through a Slit in a Solid Body. (T) M. G. Phkakadze. 9, 301 (1967) [9, 394 (1967)]

Absorption of High-Frequency Longitudinal Sound in Solids at Low Temperatures. (T) L. É. Gurevich and B. I. Shklovskii. 9, 401 (1967) [9, 526 (1967)]

Measurement of the Phonon Distribution Fuction in Polycrystalline Materials Using Coherent Scattering of Slow Neutrons into a Solid Angle. (T/E) V. S. Oskotskii. 9, 420 (1967) [9, 550 (1967)]

Two-Photon Photoconductivity in CdS Excited with Giant Pulses from Ruby Laser. (E) B. M. Ashkinadze, A. A. Grinberg, S. M. Ryvkin, and I. D. Yaroshetskii. 9, 461 (1967) [9, 601 (1967)]

Quantum Theory of Space Charge Capacitance. (T) N. V. Fomin. 9, 474 (1967) [9, 616 (1967)]

Super-nonradiative State of Matter. (T) U. Kh. Kopvillem and V. R. Nagibarov. 9, 1008 (1967) [9, 1287 (1967)]

Light Absorption by Free Current Carriers in a Semiconductor Placed in a Quantizing Magnetic Field. (T) I. A. Poluéktov and Yu. M. Popov. 9, 1079 (1967) [9, 1382 (1967)]

Oscillations of the Phonon Radiation Power in a Quantizing Magnetic Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 1150 (1967) [9, 1473 (1967)]

Quantum-Mechanical Theory of Direct Nuclear Magnetic Relaxation. (T) Sh. F. Murtazin. 9, 1222 (1967) [9, 1552 (1967)]

Influence of the Crystal Field on Angular $\gamma-\gamma$-Correlation in Paramagnets. (T) F. P. Khaimovich. 9, 1261 (1968) [9, 1603 (1967)]

Positron Annihilation in Metals. (T) V. L. Sedov. 9, 1540 (1968) [9, 1957 (1967)]

Theory of Spin-Lattice Relaxation of Impurity Centers. (T) L. L. Buishvili and M. D. Zviadadze. 9, 1549 (1968) [9, 1969 (1967)]

Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. (T) E. D. Trifonov, A. S. Troshin, and É. E. Fradkin. 9, 1617 (1968) [9, 2061 (1967)]

Magnon-Phonon Interaction in Cubic Crystals. (T) V. S. Tumanov. 9, 1854 (1968) [9, 2369 (1967)]

Spin-Lattice Relaxation in a Solid Containing Localized Defects. (T) V. P. Sakun. 9, 1880 (1968) [9, 2404 (1967)]

Acoustical Saturation of the NMR Line of In^{115} in InSb. (E) Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, N. A. Shamukov, and I. S. Avar'yanov. 9, 1899 (1968) [9, 2426 (1967)]

Remarks on Meshcheryakov's Paper "The Susceptibility of a Four-Level Paramagnetic System under Step-by-Step Conditions at Saturation." (T) A. Jeleński and Z. Szymszak. 9, 1905 (1968) [9, 2432 (1967)]

Quantum Oscillations of the Photomagnetic Effect in n-Type InAs. (E) M. S. Bresler, A. V. Matveenko, and I. I. Farbshtein. 9, 1924 (1968) [9, 2448 (1967)]

Reflection of Ions Obliquely Incident on a Single Crystal. (T) V. E. Yurasova and D. S. Karpuzov. 9, 1971 (1968) [9, 2508 (1967)]

Equations for the Sums of the Intensities in the Mössbauer Spectra. (T) S. V. Karyagin. 9, 1979 (1968) [9, 2514 (1967)]

Quantum Oscillations of Thermomagnetic Coefficients in Strong Magnetic Fields. (T) Yu. M. Gal'perin. 9, 2029 (1968) [9, 2579 (1967)]

Double Electron-Nuclear Magnetoacoustic Resonance at Localized Electronic Centers. (T) M. F. Deigen and I. I. Zheru. 9, 2053 (1968) [9, 2611 (1967)]

Thermal Equation of State of Solid Solutions. (T) Ya. A. Iosilevskii. 9, 2090 (1968) [9, 2661 (1967)]

The Secondary Electron Emission (SEE) of Solids at Large Angles of Incidence of the Primary Beam. (E) I. M. Bronshtein and V. A. Dolinin. 9, 2133 (1968) [9, 2718 (1967)]

Theory of Cyclotron Echo. (T) Ya. Ya. Asadullin and U. Kh. Kopvillem. 9, 2150 (1968) [9, 2737 (1967)]

Quantum Oscillations of Transport Coefficients of Mercury Selenide. (E) M. S. Bresler, S. A. Aliev, and S. S. Shalyt. 9, 2159 (1968) [9, 2746 (1967)]

Ground-State Energy of a Bound Polaron. (T/E) Yu. E. Perlin and Sh. N. Gifeisman. 9, 2165 (1968) [9, 2752 (1967)]

Theory of the Photoionization of F' Color Centers. (T) A. A. Berezin. 9, 2170 (1968) [9, 2756 (1967)]

The Theory of Electrical Conductivity of Crystals Having Large Dielectric Constants. (T) I. V. Ioffe. 9, 2182 (1968) [9, 2775 (1967)]

Ultrasonic Absorption in Antiferromagnets. (T) G. A. Roman and B. I. Shklovskii. 9, 2196 (1968) [9, 2794 (1967)]

Effect of Optical-Phonon Heating on the Magnetophonon Resonance in a Strong Electric Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 2256 (1968) [9, 2870 (1967)]

Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]

Electroluminescence of Gallium Phosphide Prepared by the Zone Melting Method. (E) N. P. Bogoroditskii, A. N. Pikhtin, and D. A. Yas'kov. 9, 2297 (1968) [9, 2921 (1967)]

Paramagnetic Resonance Spectrum with the Electron-Phonon Interaction Taken into Consideration in the Case of Weak Coupling. (T) N. G. Koloskova and B. I. Kochelaev. 9, 2317 (1968) [9, 2948 (1967)]

The X-Ray Spectra of Boron and Its Compounds. (T/E) V. A. Fomichev. 9, 2496 (1968) [9, 3167 (1967)]

Polaron Nature of the Current Carriers in Rutile (TiO_2). (T) V. N. Bogomolov, E. K. Kudinov, and Yu. A. Firsov. 9, 2502 (1968) [9, 3175 (1967)]

Theory of EPR Line Shape in External Constant and Alternating Electric Fields. (T) M. D. Glinchuk, M. F. Deigen, and G. V. Korobko. 9, 2519 (1968) [9, 3198 (1967)].

Excess Current in Tunnel Diodes. (E) B. M. Vul, É. I. Zavaritskaya, and N. V. Zavaritskii. 9, 2530 (1968) [9, 3212 (1967)]

Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]

Field Effect in Bismuth. (E/T) Yu. F. Ogrin, V. N. Lutskii, and M. I. Elinson. 9, 2547 (1968) [9, 3234 (1967)]

Spatial Oscillations of Spin Density and Nuclear Magnetic Resonance in $RbCoF_3$. (T) M. P. Petrov and G. M. Nedlin. 9, 2556 (1968) [9, 3246 (1967)]

Nonlinear Dependence of the Luminescence of Cuprous Oxide on the Photoexcitation Intensity. (E) N. A. Tolstoi and A. P. Abramov. 9, 2630 (1968) [9, 3340 (1967)]

Penetration of Electrons with Moderate Energies into a Solid. (T/E) L. A. Smirnov and M. A. Rumsh. 9, 2653 (1968) [9, 3361 (1967)]

Relaxation of Localized Vibrational Excitation in a Crystal. (T) E. D. Trifonov. 9, 2680 (1968) [9, 3395 (1967)]

Extension of the Applicability Limit of the Theory of Low Mobility. (T) I. E. Lang and Yu. A. Firsov. 9, 2701 (1968) [9, 3422 (1967)]

Production of Current Carriers from Excitons by Charge Transfer in Anthracene. (T/E) E. L. Frankevich and I. A. Sokolik. 9, 2715 (1968) [9, 3441 (1967)]

Quantum Theory of the Hall Effect in Semimetals Having an Equal Number of Electrons and Holes. (T) A. L. Éfros. 9, 2725 (1968) [9, 3456 (1967)]

Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 2769 (1968) [9, 3516 (1967)]
Theory of the Photomagnetic Effect on Heated Electrons. (T) R. I. Lyagushchenko and I. N. Yassievich. 9, 2794 (1968) [9, 3547 (1967)]
Excitation Density Distribution for Internal Secondary Electrons in Cesium Iodide for Medium-Energy Primary Electrons. (E) M. V. Gomoyunova. 9, 2802 (1968) [9, 3559 (1967)]
A Contribution to the Kinetic Theory of Acoustic Absorption in Metals. (T) M. I. Kaganov and V. G. Peschanskii. 9, 2810 (1968) [9, 3570 (1967)]
Experimental Observation of Electromagnetic Radiation from Sn–Pb, Pb–Pb and In–In Superconducting Tunnel Junctions. (E) I. M. Dmitrenko, I. K. Yanson, and I. I. Yurchenko. 9, 2889 (1968) [9, 3656 (1967)]

RECOMBINATION

Experimental Investigations of the Electroluminescence Effect in CdTe p-n Junctions. (E) G. P. Naumov. 9, 46 (1967) [9, 64 (1967)]
Recombination through Exciton States in Semiconductors. (T) É. L. Nolle. 9, 90 (1967) [9, 122 (1967)]
Carrier Density in a Semiconductor Illuminated with a Laser. (E) L. M. Blinov, V. S. Vavilov, and G. N. Galkin. 9, 666 (1967) [9, 854 (1967)]
Recombination of Hot Carriers on a Real Surface of n-Type Germanium. (E) S. P. Kal'venas, L. A. Klimka, and Yu. K. Pozhela. 9, 729 (1967) [9, 936 (1967)]
Investigation of the Electroluminescence of p–n Junctions in Indium Arsenide. (E) N. P. Esina, N. V. Zotova, and D. N. Nasledov. 9, 1036 (1967) [9, 1324 (1967)]
Influence of Uniaxial Compression on the Interimpurity Radiative Recombination in Germanium. (E) V. P. Dobrego, S. M. Ryvkin, and I. S. Shlimak. 9, 1131 (1967) [9, 1451 (1967)]
Conditions for the Existence of Slow and Fast Recombination Waves in Semiconductors. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 9, 1381 (1967) [9, 1761 (1967)]
Photoconductivity and Recombination of Triplet Excitons in Anthracene. (E) E. L. Frankevich and I. A. Sokolik. 9, 1532 (1968) [9, 1945 (1967)]
Luminescence of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]
Determination of the Radiative Capture Yield of Electrons at Sensitizing Recombination Centers in CdS. (E) I. B. Ermolovich, N. B. Luk'yanchikova, and M. K. Sheinkman. 9, 2280 (1968) [9, 2899 (1967)]
Thermal Ionization Mechanism for F Centers in Alkali-Halide Crystal Phosphors. (T/E) F. N. Zaitov and E. S. Dudarev. 9, 2435 (1968) [9, 3087 (1967)]
Recombination of Nonequilibrium Carriers in Silicon in the Case of High Photoexcitation Levels. (E) L. M. Blinov, E. A. Bobrova, V. S. Vavilov, and G. N. Galkin. 9, 2537 (1968) [9, 3221 (1967)]
Production of Current Carriers from Excitons by Charge Transfer in Anthracene. (T/E) E. L. Frankevich and I. A. Sokolik. 9, 2715 (1968) [9, 3441 (1967)]
Interaction of Luminescence Centers in the Electroluminescence of ZnS:Cu, Al Phosphors. (E/T) A. M. Bonch-Bruevich, A. V. Burlakov, and I. N. Taganov. 9, 3769 (1968) [9, 3516 (1967)]

RESONANCE

Magnetic Resonance in Singlet Electronic Levels of V^{3+} Ions in Corundum. (E/T) V. N. Yastrebov. 9, 95 (1967) [9, 129 (1967)]
Ferromagnetic Resonance in Single Crystals of Bismuth–Calcium–Iron–Vanadium Garnet. (E/T) B. E. Rubinshtein and G. M. Galaktionova. 9, 134 (1967) [9, 179 (1967)]
Ferromagnetic and Spin-Wave Resonances in Fe–Ni Alloy Thin Films. (E) G. I. Rusov. 9, 146 (1967) [9, 196 (1967)]
Parametric Phenomena in Helicoidal Magnetic Structures. (T) M. A. Savchenko and V. V. Tarasenko. 9, 149 (1967) [9, 200 (1967)]
Detection of Cyclotron Resonance from Changes in the Static Conductivity. (E) E. M. Gershenzon, Yu. A. Gurvich, N. G. Ptitsyna, and S. L. Orlova. 9, 543 (1967) [9, 691 (1967)]
Slow Neutron Scattering by Spin Waves Excited by Ferromagnetic Resonance. (T) S. V. Maleev and S. S. Stamenkovich. 9, 575 (1967) [9, 733 (1967)]
Mössbauer Effect in Glasses Containing Tin. (E) K. P. Mitrofanov and T. A. Sidorov. 9, 693 (1967) [9, 890 (1967)]
Combination Resonance of Holes in Ge and Si Type Semiconductors. (T) G. L. Bir, E. I. Butikov, and G. E. Pikus. 9, 835 (1967) [9, 1068 (1967)]
Measurement of the Magnetostriction Constants of Ferrite Single Crystals by the Ferromagnetic Resonance Method. (T/E) Yu. N. Kotyukov. 9, 899 (1967) [9, 1149 (1967)]
Effect of Thermodynamic Fluctuations of the Magnetization on the Ferromagnetic Resonance Line Width. (E) Yu. M. Yakovlev and Yu. R. Shil'nikov. 9, 920 (1967) [9, 1178 (1967)]
High-Frequency Oscillations in Polycrystalline Ferrites during Nonlinear Ferromagnetic Resonance. (E) Ya. A. Monosov and V. V. Surin. 9, 970 (1967) [9, 1246 (1967)]
Study of Nuclear γ-Resonance after α-Decay. (E) G. N. Belozerskii, Yu. A. Nemilov, A. A. Chaikhorskii, and A. V. Shvedchikov. 9, 978 (1967) [9, 1252 (1967)]
A Contribution to the Theory of the Shape of the Acoustomagnetic Resonance Line. (T) M. N. Aliev. 9, 1020 (1967) [9, 1304 (1967)]
Polarization of the Radiation from a Ruby Laser. (T/E) A. I. Alekseev and Yu. P. Nikitin. 9, 1024 (1967) [9, 1309 (1967)]
Heating of Carriers in Cyclotron and Combined Resonances. (T) G. E. Gurgenishvili and G. R. Khutsishvili. 9, 1193 (1967) [9, 1523 (1967)]
Ferro- and Paramagnetic Resonance of Divalent Europium Oxides. (E/T) A. A. Samokhvalov, V. S. Babushkin, and V. G. Bamburov. 9, 1239 (1967) [9, 1573 (1967)]
Conditions for Ferromagnetic Resonance in Single-Crystal Films. (T/E) V. A. Ignatchenko and G. I. Rusov. 9, 1650 (1968) [9, 2105 (1967)]
Theory of Saturation of Parametric Resonance of Spin Waves in Ferrites. (T) G. A. Petrakovskii. 9, 1658 (1968) [9, 2113 (1967)]
Spin-Cyclotron-Phonon Resonance in Semiconductors. (T) A. Yu. Matulis. 9, 1755 (1968) [9, 2238 (1967)]
An Operational Definition of Spin Temperature. (T) V. N. Tropinin. 9, 1803 (1968) [9, 2302 (1967)]
Shape of NMR Line for a Two-Spin and Nonresonant Dipole System. (T/E) B. M. Moiseev and L. I. Fedorov. 9, 1867 (1968) [9, 2387 (1967)]
State of Iron Impurity Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1901 (1968) [9, 2428 (1967)]
Double Electron-Nuclear Magnetoacoustic Resonance at Localized Electronic Centers. (T) M. F. Deigen and I. I. Zheru. 9, 2053 (1968) [9, 2611 (1967)]
Acoustic Nuclear Magnetic Resonance in Plastically Deformed NaCl. (T/E) S. B. Grigor'ev, L. G. Merkulov, and A. M. Saxonov. 9, 2096 (1968) [9, 2670 (1967)]
Resonant Frequencies in a Two-Sublattice Uniaxial Ferrite in the Noncolinear Phase. (T) B. I. Kuliev and G. M. Nedlin. 9, 2102 (1968) [9, 2678 (1967)]
Theory of Kinetic Phenomena with Low-Temperature Scattering by Optical Phonons. (T). G. É. Mazhuolite. 9, 2219 (1968) [9, 2823 (1967)]
Dielectric Resonance. (T) D. G. Sannikov. 9, 2244 (1968) [9, 2854 (1967)]
Effect of Optical-Phonon Heating on the Magnetophonon Resonance in a Strong Electric Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 2256 (1968) [9, 2870 (1967)]
Quadrupole Splitting of an NMR Line Caused by Lattice Distortion by Impurity Ions in NaCl-Type Crystals. (T) Yu. A. Grinchenko and B. L. Timan. 9, 2287 (1968) [9, 2909 (1967)]

Theory of Surface Waves in Solids. (T) S. I. Khankina and V. M. Yakovenko. 9, 2313 (1968) [9, 2943 (1967)]

EPR Line Shape and Acoustic Magnetic Resonance of Cr^{3+} in Al_2O_3 in the Presence of an Electric Field. (T) U. Kh. Kopvillem and B. P. Smolyakov. 9, 2664 (1968) [9, 3375 (1967)]

Resonance Absorption of Sound Waves in Iron Garnet Single Crystals. (E/T) K. V. Goncharov, V. A. Krasil'nikov, and V. I. Uchastkin. 9, 2671 (1968) [9, 3384 (1967)]

Ferromagnetic Resonance in Calcium-Bismuth-Vanadium-Gallium Garnet. (E) A. N. Agoev and O. B. Proskuryakov. 9, 2858 (1968) [9, 3626 (1967)]

SCATTERING

Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]

Longitudinal Magnetoresistance for Scattering by Optical Phonons. (T) V. V. Bryksin. 9, 171 (1967) [9, 232 (1967)]

Effect of the Type of Scattering on Corbino Magnetoresistance in Semiconductors. (T) I. Glasnik. 9, 317 (1967) [9, 414 (1967)]

Scattering of Polarons by Acoustic Lattice Vibrations. (T) G. M. Shmelev. 9, 371 (1968) [9, 488 (1967)]

Basic Equations of the Dynamical Theory of X-Ray Scattering for Imperfect Crystals. (T) E. A. Tikhonova. 9, 394 (1967) [9, 516 (1967)]

Measurement of the Phonon Distribution Function in Polycrystalline Materials Using Coherent Scattering of Slow Neutrons into a Solid Angle. (T/E) V. S. Oskotskii. 9, 420 (1967) [9, 550 (1967)]

Inelastic Scattering of 0.2–0.8 keV Electrons Incident at Large Angles on Beryllium and Lead. (E) I. M. Bronshtein and V. A. Dolinin. 9, 535 (1967) [9, 683 (1967)]

Inelastic Scattering of Electrons Having Specific Energies in Thin Films of Gold. (E) N. G. Nakhodkin and P. V. Mel'nik. 9, 567 (1967) [9, 723 (1967)]

Slow Neutron Scattering by Spin Waves Excited by Ferromagnetic Resonance. (T) S. V. Maleev and S. S. Stamenkovich. 9, 575 (1967) [9, 733 (1967)]

Absorption of Infrared Radiation by Free Carriers in n-Type GaAs. (E) O. V. Vakulenko and M. P. Lisitsa. 9, 769 (1967) [9, 979 (1967)]

Study of the Ferroelectric Transition in $NaNO_2$ Using the Raman Scattering Spectrum in the Region of NO_2^- Anion Vibrations. (E) É. V. Chisler and M. S. Shur. 9, 796 (1967) [9, 1015 (1967)]

Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]

Correction to the Paper of L. I. Korovin and E. V. Kharitonov "Theory of the Form of the Interband Magnetooptical Absorption Lines for the Case of Elastic Scattering." (T) L. I. Korovin and E. V. Kharitonov. 9, 988 (1967) [9, 1262 (1967)]

Corrections to the Paper "Contribution of Transfer Processes and Intervalley Transitions to Free Electron Absorption in n-Si" by A. M. Vasil'ev and L. I. Trusov. (T) A. M. Vasil'ev and L. I. Trusov. 9, 1236 (1967) [9, 1564 (1967)]

Structural Changes in an Aluminum–Germanium Solid Solution at the Stage of Decomposition Corresponding to Maximum Hardness. (E) L. M. Sorokin and A. A. Sitnikova. 9, 1525 (1968) [9, 1935 (1967)]

Consideration of Partial Phonon Reflection from Boundaries in the Calculation of the Low-Temperature Thermal Conductivity of Dielectrics. (T) A. E. Kazakov and É. L. Nagaev. 9, 1255 (1967) [9, 1594 (1967)]

X-Ray Determination of Dispersion Curves of the Ionic Crystals KCl and KI. (E) V. I. Iveronova, Parangtopo, and A. P. Zvyagina. 9, 1265 (1967) [9, 1609 (1967)]

A Diffractometer Investigation of the Structure of Amorphous Gallium Using Electron Diffraction with a Retarding Field. (E) B. T. Boiko, L. S. Palatnik, and A. S. Derevyanchenko. 9, 1278 (1967) [9, 1625 (1967)]

Influence of Thermal Oscillations on Electron Scattering in the Dynamical Theory Approximation. (T) L. B. Kvashnina, V. B. Molodkin, and E. A. Tikhonova. 9, 1306 (1967) [9, 1660 (1967)]

A Lattice-Dynamical Investigation of the Hydrides CeH_2, CeH_3, ThH_2, and $UH_{2+\gamma}$ Using Inelastic Scattering of Cold Neutrons. (E) I. Karimov, M. G. Zemlyanov, M. E. Kost, V. A. Somenkov, and N. A. Chernoplekov. 9, 1366 (1967) [9, 1740 (1967)]

Inelastic Scattering of Medium-Energy Electrons in the Continuous-Energy-Loss Approximation. (T/E) A. A. Ostroukhov. 9, 1369 (1967) [9, 1744 (1967)]

Scattering of High-Energy Particles Incident on a Solid at an Angle Close to $\pi/2$. (T) O. B. Firsov. 9, 1687 (1968) [9, 2145 (1967)]

Coherent Effects in Crystals Containing Electron Impurity Centers. (T) M. A. Ivanov. 9, 1731 (1968) [9, 2206 (1967)]

Radiation-Stimulated Migration Processes in Solids. (T) A. E. Kiv and F. T. Umarova. 9, 1745 (1968) [9, 2225 (1967)]

Formation of Submicroscopic Cracks in Loaded Oriented Amorphous-Crystalline Polymers. (E) V. S.Kuksenko, A. I. Slutsker, and A. A. Yastrebinskii. 9, 1869 (1968) [9, 2390 (1967)]

Scattering of Phonons at Point Defects in the Solid Solutions $PbTe_xSe_{1-x}$ and Ge_xSi_{1-x}. (E/T) V. A. Saakyan. 9, 1885 (1968) [9, 2411 (1967)]

Reflection of Ions Obliquely Incident on a Single Crystal. (T) V. E. Yurasova and D. S. Karpusov. 9, 1971 (1968) [9, 2508 (1967)]

Experimental Method for Determining Thermal Oscillations for Coherently Scattering Crystals. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. 9, 2011 (1968) [9, 2553 (1967)]

Quantum Oscillations of Thermomagnetic Coefficients in Strong Magnetic Fields. (T) Yu. M. Gal'perin. 9, 2029 (1968) [9, 2579 (1967)]

Microscopic Theory of Diffusion in Crystalline Solid Solutions and the Time Evolution of the Diffuse Scattering of X Rays and Thermal Neutrons. (T) A. G. Khachaturyan. 9, 2040 (1968) [9, 2594 (1967)]

Phonon Scattering by Distorted Lattices of Ionic Crystals Containing Nonstoichiometric Vacancies. (E/T) I. I. Vishnevskii and V. N. Skripak. 9, 2129 (1968) [9, 2713 (1967)]

Dependence of the Intensity of Stimulated Mandel'shtam-Brillouin Scattering in Fused Quartz on the Excitation Intensity. (E) S. M. Ryvkin, V. M. Ryasakov, I. M. Fishman, B. I. Shklovskii, and I. D. Yaroshetskii. 9, 2148 (1968) [9, 2735 (1967)]

The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

Theory of Kinetic Phenomena with Low-Temperature Scattering by Optical Phonons. (T) G. É. Mazhuolite. 9, 2219 (1968) [9, 2823 (1967)]

Two-Magnon Combination Scattering of Light in Magnetically Ordered Dielectrics. (T) V. S. L'vov. 9, 2328 (1968) [9, 2963 (1967)]

Thermal Properties of Superconductors with a Strong Electron-Phonon Interaction. (T/E) B. T. Geilikman and V. Z. Kresin. 9, 2453 (1968) [9, 3111 (1967)]

Spin-Phonon Interaction of Nuclei of Paramagnetic Ions. (T) Sh. Sh. Bashkirov, B. I. Kochelaev, and É. K. Sadykov. 9, 2550 (1968) [9, 3238 (1967)]

Structure and Substructure Elements in Condensed Polycrystalline Films. (E) M. Ya. Fuks, L. S. Palatnik, P. G. Cheremskoi, and P. A. Panchekha. 9, 2575 (1968) [9, 3273 (1967)]

Theory of the Acoustoelectric Effect. (T) V. D. Kagan. 9, 2591 (1968) [9, 3293 (1967)]

Piezomagnetoresistance of n-Type Ge for a Mixed Scattering Mechanism. (E) A. L. Lipin, V. S. L'vov, and T. V. Smirnova. 9, 2628 (1968) [9, 3339 (1967)]

Determination of the Thermodynamic Characteristics of Solid Solutions from Short-Range Order Parameters. (T/E) S. V. Semenovskaya. 9, 2690 (1968) [9, 3408 (1967)]

A Contribution to the Kinetic Theory of Acoustic Absorption in Metals. (T) M. I. Kaganov and V. G. Peschanskii. 9, 2810 (1968) [9, 3570 (1967)]

SEMICONDUCTOR METALLURGY

Formation of Metallic Modifications of Germanium and Silicon under Shock Loading. (E) M. N. Pavlovskii. 9, 2514 (1968) [9, 3192 (1967)]

Production of Tubes from Germanium. (E) Yu. I. Koptev and A. V. Stepanov. 9, 2370 (1968) [9, 3007 (1967)]

SEMICONDUCTOR THEORY

Quantum Theory of the Nernst-Ettingshausen Effect in Semiconductors. (T) A. I. Ansel'm and B. M. Askerov. 9, 22 (1967) [9, 31 (1967)]

Theory of Impact Ionization in Ionic Semiconductors. (T) V. A. Chuenkov. 9, 35 (1967) [9, 48 (1967)]

Temperature and Field Dependence of the Knight Shift in Metals and Semiconductors. (T) D. A. Zhogolev. 9, 42 (1967) [9, 59 (1967)]

Recombination through Exciton States in Semiconductors. (T) E. L. Nolle. 9, 90 (1967) [9, 122 (1967)]

Influence of Uniform Pressure and of Temperature on the Characteristics of p-n Tunnel Junctions in GaAs. (E) T. N. Anashkina, A. N. Imenkov, S. S. Meskin, V. N. Ravich, G. B. Sinyutina, L. N. Syrkin, N. N. Feokistova, and B. V. Tsarenkov. 9, 219 (1967) [9, 294 (1967)]

Nonlinear Theory of Acoustic Instability in Piezoelectric Semiconductors. (T) P. E. Zil'berman. 9, 231 (1967) [9, 309 (1967)]

Excitation of Electromagnetic Waves in Ionic Semiconductors by an Electron Beam. (T) M. I. Kheifets. 9, 241 (1967) [9, 322 (1967)]

Comment on the Paper "Motion of Electrical Domains in Semiconductors Containing Hot Electrons." (R) V. L. Bonch-Bruevich. 9, 270 (1967) [9, 355 (1967)]

Reduction of the Forbidden Band Width of a Heavily Doped Semiconductor. (T/E) A. A. Rogachev. 9, 283 (1967) [9, 369 (1967)]

Sign of the Photoadsorption Effect in Semiconductors during the Absorption of Light by the Exciton Mechanism. (T) F. F. Vol'kenshtein and I. V. Karpenko. 9, 308 (1967) [9, 403 (1967)]

Effect of the Type of Scattering on Corbino Magnetoresistance in Semiconductors. (T) I. Glasnik. 9, 317 (1967) [9, 414 (1967)]

Acoustic Concentration Effect in Semiconductors. (T) Yu. V. Gulyaev. 9, 329 (1967) [9, 431 (1967)]

Scanning Electron-Microscope Observation of the Action of Light on the Potential Distribution in a p-n Junction. (E) V. N. Vertsner, Yu. V. Chentsov, and V. M. Krygin. 9, 391 (1967) [9, 512 (1967)]

Excitation of Surface Electromagnetic Waves in Semiconductors. (T) S. I. Khankina and V. M. Yakovenko. 9, 443 (1967) [9, 578 (1967)]

Theory of Spin-Lattice Relaxation of Conduction Electrons in Semiconductors. (T) V. P. Kalashnikov. 9, 488 (1967) [9, 634 (1967)]

Drift Mobility of Carriers in Nickel Oxide. (E) V. V. Makarov, Ya. M. Ksendzov, and V. I. Kruglov. 9, 512 (1967) [9, 663 (1967)]

Quantum Theory of Space Charge Capacitance. (T) N. V. Fomin. 9, 474 (1967) [9, 616 (1967)]

Superconductivity at the Contact Region of Two Media. (T) A. V. Chaplik. 9, 551 (1967) [9, 701 (1967)]

Carrier Density in a Semiconductor Illuminated with a Laser. (E) L. M. Blinov, V. S. Vavilov, and G. N. Galkin. 9, 666 (1967) [9, 854 (1967)]

Relaxation of Effective Temperature of Current Carriers in Semiconductors. (T) M. V. Kvirnadze. 9, 682 (1967) [9, 875 (1967)]

Characteristics of the Electric Pinch Effect in Many-Valley Bipolar Semiconductors. (T/E) Z. S. Gribnikov and É. I. Rashba. 9, 760 (1967) [9, 967 (1967)]

Combination Resonance of Holes in Ge and Si Type Semiconductors. (T) G. L. Bir, E. I. Butikov, and G. E. Pikus. 9, 835 (1967) [9, 1068 (1967)]

Possible Application of Surface Elastic Waves to the Investigation of the Surface Properties of Semiconductors. (T) A. A. Karpushin and S. K. Savvinykh. 9, 893 (1967) [9, 1141 (1967)]

Investigation of the Field Emission of Electrons from Germanium. (E) V. G. Ivanov, G. N. Fursei, and I. L. Sokol'skaya. 9, 895 (1967) [9, 1144 (1967)]

Theory of Kinetic Phenomena in Semiconductors Having a Small Mobility. (T) A. L. Éfros. 9, 901 (1967) [9, 1152 (1967)]

Light Absorption by Free Current Carriers in a Semiconductor Placed in a Quantizing Magnetic Fields. (T) I. A. Poluéktov and Yu. M. Popov. 9, 1079 (1967) [9, 1382 (1967)]

Absorption of Laser Radiation and Damage in Semiconductors. (E) A. G. Grinberg, R. F. Mekhtiev, S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 9, 1085 (1967) [9, 1390 (1967)]

Paramagnetic Resonance of Conduction Electrons in Silicon–Germanium Alloys. (E) I. G. Gverdtsiteli, L. N. Aleksandrov, and V. V. Boiko. 9, 1328 (1967) [9, 1690 (1967)]

Conditions for the Existence of Slow and Fast Recombination Waves in Semiconductors. (T) O. V. Konstantinov, V. I. Perel', and G. V. Tsarenkov. 9, 1381 (1967) [9, 1761 (1967)]

Splitting of the Ground Level of Double Acceptors in Semiconductors. (T) N. S. Baryshev, B. I. Beglov, and K. Ya. Shtivel'man. 9, 1463 (1967) [9, 1854 (1967)]

Galvanomagnetic Effects in Semiconductors Having Toroidal Isoenergetic Surfaces. (T) A. G. Aronov and P. Kh. Mussaev. 9, 1790 (1968) [9, 2284 (1967)]

Mixing of Two Frequencies of Light by Free Current Carriers in Semiconductors Possessing Nonparabolic and Nonspherical Energy Surfaces. (T) A. A. Grinberg. 9, 2004 (1968) [9, 2544 (1967)]

Conduction Mass of Holes in InSb. (E) G. P. Skornyakov, I. M. Tsidil'kovskii, T. P. Chukina, and V. A. Kokoshkin. 9, 2064 (1968) [9, 2625 (1967)]

Forbidden-Band Width of PbSe at High Temperatures. (E) E. D. Devyatkova and V. A. Saakyan. 9, 2163 (1968) [9, 2750 (1967)]

The Pinch Effect in Intrinsic Semiconductors. (T) I. I. Boiko. 9, 2303 (1968) [9, 2929 (1967)]

Theory of Surface Waves in Solids. (T) S. I. Khankina and V. M. Yakovenko. 9, 2313 (1968) [9, 2943 (1967)]

The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Rozhanskii. 9, 2448 (1968) [9, 3104 (1967)]

Thermodynamic Model for Dissolution of Impurities and Deviations from Stoichiometry in Crystals Having Stoichiometric Vacancies. (T) V. M. Koshkin, Yu. A. Freiman, and L. V. Atroshchenko. 9, 2460 (1968) [9, 3120 (1967)]

Paramagnetic Resonance of Shallow Acceptors in Gallium Arsenide. (E) S. P. Fedotov, V. A. Presnov, and V. K. Bazhenov. 9, 2630 (1968) [9, 3332 (1967)]

A Nonlinear Effect in Piezoelectric Semiconductors. (E) A. A. Chaban. 9, 2632 (1968) [9, 3334 (1967)]

Thermal EMF of a Semiconductor in a Strong Electric Field. (T) L. É. Gurevich and T. M. Gasymov. 9, 2752 (1968) [9, 3493 (1967)]

Stability of a Static Electric Inhomogeneity in a Semiconductor Possessing a Negative Differential Resistivity. (T) G. F. Karavaev. 9, 2836 (1968) [9, 3604 (1967)]

SPECTRA

Infrared Absorption Spectrum of the Antiferromagnets $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova, I. G. Sinii, R. V. Pisarev, and P. P. Syrnikov. 9, 15 (1967) [9, 21 (1967)]

Magnetic Resonance in Singlet Electronic Levels of V^{3+} Ions in Corundum. (E/T) V. N. Yastrebov. 9, 95 (1967) [9, 129 (1967)]

Deformational Splitting of Luminescence Spectrum Lines and the Structures of Exchange-Linked Pairs of Chromium Ions in Ruby. (E/T) A. A. Kaplyanskii and A. K. Przhevuskii. 9, 190 (1967) [9, 257 (1967)]

Possibility of Measuring the Thermal Vibration Spectrum $g(\omega)$ Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]

X-Ray Emission Spectrum Investigation of the Electron Structure of Elements in the Second Large Period. (E) V. V. Nemoshkalenko and V. P. Krivitskii. 9, 268 (1967) [9, 353 (1967)]
Characteristics of Impurity-Center Formation in CdF_2. (E) F. Z. Gil'fanov, L. D. Livanova, and A. L. Stolov. 9, 326 (1967) [9, 427 (1967)]
Theory of Absorption and Emission of Light by an Impurity in Ferromagnetic and Antiferromagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 349 (1967) [9, 457 (1967)]
EPR, Spin-Lattice Relaxation, and Optical Absorption in Magnesium Tungstate Containing Cobalt Impurity. (E) V. A. Atsarkin, S. K. Morshnev, and L. I. Potkin. 9, 660 (1967) [9, 846 (1967)]
Mössbauer Effect in Glasses Containing Tin. (E) K. P. Mitrofanov and T. A. Sidorov. 9, 693 (1967) [9, 890 (1967)]
Concentration Quenching of Erbium Luminescence in Yttrium-Aluminum Garnet. (E) R. V. Bakradze, G. M. Zverev, G. Ya. Kolodnyi, G. P. Kuznetsova, and A. M. Onishchenko. 9, 733 (1967) [9, 939 (1967)]
Absorption of Infrared Radiation by Free Carriers in n-Type GaAs. (E) O. V. Vakulenko and M. P. Lisitsa. 9, 769 (1967) [9, 979 (1967)]
Magnetooptical Oscillations of Absorption in Germanium Crystals Free of Mechanical Stresses. (E) A. V. Varfolomeev, B. P. Zakharchenya, and R. P. Seisyan. 9, 847 (1967) [9, 1085 (1967)]
Study of X-Ray K Spectra of Titanium in Its Nitride and Carbide. (E) V. I. Chirkov, S. M. Blokhin, and É. E. Vainshtein. 9, 873 (1967) [9, 1116 (1967)]
Comparison of Spectra of Cold Neutrons Scattered by Amorphous and Crystalline Selenium. (E) B. A. Kotov, N. M. Okuneva, A. R. Regel', and A. L. Shakh-Budagov. 9, 955 (1967) [9, 1227 (1967)]
Symmetry of Centers and Nature of Excited Stark Levels of Gd^{3+} Ion in CaF_2 Crystals. (E) F. Z. Gil'fanov, A. M. Leushin, and A. L. Stolov. 9, 1061 (1967) [9, 1357 (1967)]
Mössbauer Effect in Covalent Iron Complexes at Low Temperatures. (E) B. Sawicki, J. Sawicki, and A. Z. Hrynkiewicz. 9, 1100 (1967) [9, 1410 (1967)]
A Study of the State of Iron Ions in Silver Halides Using the Mössbauer Effect. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1110 (1967) [9, 1434 (1967)]
EPR Studies of Rupture Points in Mechanically Stressed Polyamide Macromolecules. (E/T) V. A. Zakrevskii, É. E. Tomashevskii, and V. V. Baptizmanskii. 9, 1118 (1967) [9, 1434 (1967)]
Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]
Discrete Absorption by 4d Electrons in the Lanthanum Group Rare Earth Metals. (E) V. A. Fomichev, T. M. Zimkina, S. A. Gribovskii, and I. I. Zhukova. 9, 1163 (1967) [9, 1490 (1967)]
The Mössbauer Effect in Np^{237} in Neptunium Dioxide. (E) V. A. Bryukhanov, V. V. Ovechkin, A. I. Peryshkin, E. I. Rzhekhina, and V. S. Shpinel' 9, 1189 (1967) [9, 1519 (1967)]
Determination of Effective Mass in LaSb from the Infrared Reflection Spectrum. (E) E. V. Goncharova and A. A. Kukharskii. 9, 1214 (1967) [9, 1543 (1967)]
Fine Structure of the Ground State of Co^{2+} in $NaCoF_3$, $KCoF_3$, and $RbCoF_3$. (E) N. N. Nesterova and R. V. Pisarev. 9, 1220 (1967) [9, 1550 (1967)]
Absorption Spectra and Indirect Optical Transitions in BiI_3 Single Crystals. (E) V. I. Vashchenko and V. B. Timofeev. 9, 1242 (1967) [9, 1577 (1967)]
Combinatorial Method for Calculating the Mössbauer Hyperfine Spectrum. (T) S. V. Karyagin. 9, 1252 (1967) [9, 1590 (1967)]
Capture of Holes by Tl^+ Centers in KlnTl. (E) R. A. Kink and G. G. Lilid'ya. 9, 1316 (1967) [9, 1674 (1967)]
Splitting of the Energy Levels of the Er^{3+} Ion in the Crystal Field of Strontium Molybdate. (E) Yu. A. Bobrovnikov, G. M. Zverev and A. I. Smirnov. 9, 1403 (1967) [9, 1794 (1967)]
Effect of Hydrostatic Pressure on the Refractive Index of Epitaxial PbS Films. (E) Ya. A. Semenov and A. Yu. Shileika. 9, 1419 (1967) [9, 1810 (1967)]
The Mössbauer Effect in AgI^{129}. (E) A. N. Murin, B. G. Lur'e, and Yu. S. Grushko. 9, 1429 (1967) [9, 1820 (1967)]
Energy Spectrum of Alkali Metal Ions Transmitted by Thin Copper Films. (E) E. M. Zarutskii. 9, 1495 (1968) [9, 1896 (1967)]
Exchange Pairs of Nitrogen Impurities in Diamond. (E/T) L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko. 9, 1545 (1968) [9, 1964 (1967)]
Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. (T/E) K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko. 9, 1553 (1968) [9, 1974 (1967)]
Structure of the Electronic Energy Spectrum in Nonpolar Liquids. (T) R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko. 9, 1578 (1968) [9, 2007 (1967)]
Crystal Field Parameters of Trigonal Er^{3+} Centers in CaF_2 Crystals. (E/T) G. M. Zverev and A. I. Smirnov. 9, 1586 (1968) [9, 2019 (1967)]
EPR Investigation of $Mn^{2+}-S_4^{2-}$ in Sodium Chloride Crystals. (E) M. I. Kornfel'd and Yu. N. Tolparov. 9, 1607 (1968) [9, 2047 (1967)]
Hyperfine Structure of EPR Spectra of Rare-Earth Ions in Glasses. (E/T) T. S. Al'tshuler. 9, 1623 (1968) [9, 2070 (1967)]
Polaron Mechanism of Light Absorption in Rutile Crystals. (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]
Luminescence of Mixed ZnS_x-CdS_{1-x} Crystals Subjected to Two-Photon Excitation. (E) M. S. Brodin, N. I. Vitrikhovskii, S. V. Zakrevskii, and V. Ya. Reznichenko. 9, 1699 (1968) [9, 2163 (1967)]
State of Vanadium Ions in Garnet Ferrites. (T/E) A. P. Nikol'skii, V. Ya. Dubossarskaya, and S. S. Gorelik. 9, 1809 (1968) [9, 2311 (1967)]
State of Iron Impurity Ions in Silver Halides. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1901 (1968) [9, 2428 (1967)]
EPR of Mn^{2+} in $Cd(S_{1-x}Se_x)$ Single Crystals. (E) V. M. Maevskii, I. N. Geifman, and N. I. Vitrikhovskii. 9, 1912 (1968) [9, 2437 (1967)]
Theory of the Stark Effect in the Optical Spectrum of Impurity Ion Pairs of $3d^3$ Configuration in Corundum. (T) A. E. Nikiforov. 9, 1922 (1968) [9, 2446 (1967)]
Experimental Method for Determining Thermal Oscillations for Coherently Scattering Crystals. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. 9, 2011 (1968) [9, 2553 (1967)]
Emergence of Local Vibrations of Additive Molecular Ions in the Infrared Absorption Spectra of Alkali Halide Crystals. (E) 9, 2037 (1968) [9, 2590 (1967)]
Changes in the Nature of the Chemical Bonds in Glasses Activated with Divalent Manganese. (E) S. G. Lunter, G. O. Karapetyan, N. M. Bokin, and D. M. Yudin. 9, 2259 (1968) [9, 2874 (1967)]
Luminescnece of Photochemically Sensitized and Unsensitized CdS Single Crystals. (E) I. B. Ermolovich, N. E. Korsunskaya, and M. K. Sheinkman. 9, 2275 (1968) [9, 2893 (1967)]
Displacement of Atoms by a Cascade of Fast Electrons. (T) V. M Lenchenko and É. Chadaev. 9, 2310 (1968) [9, 2939 (1967)]
Isomer Shifts of Impurity Sn^{119} Nuclei in Some Semiconducting Compounds. (E) V. V. Chekin, A. P. Vinnikov, and O. P. Balkashin. 9, 2354 (1968) [9, 2992 (1967)]
Investigation of the Energy Structure of Red Phosphorus by Ultra-Soft X-Ray Spectroscopy. (E) V. A. Fomichev. 9, 2398 (1968) [9, 3034 (1967)]
Mössbauer Effect at Sn^{119} Nuclei in Some Garnet Structure Compounds. (E) I. S. Lyubutin and B. V. Mill'. 9, 2479 (1968) [9, 3145 (1967)]
The X-Ray Spectra of Boron and Its Compounds. (T/E) 9, 2496 (1968) [9, 3167 (1967)]
EPR of Mn^{2+} in Borate and Silicate Glasses. (E) É. I. Abdrashitova and N. R. Yafaev. 9, 2500 (1968) [9, 3172 (1967)]

Influence of Impurities on Polymorphic Transitions in Octahydroanthracene Crystals. (E) V. N. Vatulev and A. F. Prikhot'ko. 9, 2739 (1968) [9, 3475 (1967)]
Polymorphic Transitions Caused by Crushing of Zinc Sulfide Phosphor Crystals and the Influence of These Transitions on Luminescence Properties. (E) E. A. Poplavskaya, G. G. Kharin, and A. E. Bryukhanov. 9, 2757 (1968) [9, 3501 (1967)]
Galvanomagnetic Effects in Antimony and the Pressure Dependence of the Energy Spectrum. (T/E) V. V. Kechin. 9, 2828 (1968) [9, 3595 (1967)]
Optical Spectrum of Fe^{2+} in Sphalerite. (E) A. S. Marfunin, A. N. Platonov, and V. E. Fedorov. 9, 2847 (1968) [9, 3616 (1967)]
Infrared Absorption of Gallium Arsenide Doped with Group VI Impurities. (E) E. P. Rashevskaya and V. I. Fistul'. 9, 2849 (1968) [9, 3618 (1967)]
Temperature Dependence of the Intensity of Local Vibrations of OH Ions in Infrared Absorption Spectra of Alkali-Halide Crystals. (E) A. I. Stekhanov and T. I. Maksimova. 9, 2900 (1968) [9, 3668 (1967)]

SUPERCONDUCTIVITY

Superconductivity at the Contact Region of Two Media. (T) A. V. Chaplik. 9, 551 (1967) [9, 701 (1967)]
Properties of Superconductors Having Overlapping Bands. (T) B. T. Geilikman, R. O. Zaitsev, and V. Z. Kresin. 9, 642 (1967) [9, 821 (1967)]
Electron Tunneling in Superconductors. (T) G. I. Urushadze. 9, 930 (1967) [9, 1192 (1967)]
Modulation of the Tunneling Current by Sound Waves in a Superconductor. (T) G. I. Urushadze. 9, 1208 (1967) [9, 1536 (1967)]
Absorption of Longitudinal Long-Wave Ultrasound in Superconducting Alloys Having a Multiband Anisotropic Fermi Surface. (T) I. I. Fal'ko. 9, 1668 (1968) [9, 2134 (1967)]
Thermal Properties of Superconductors with a Strong Electron-Phonon Interaction. (T/E) B. T. Geilikman and V. Z. Kresin. 9, 2453 (1968) [9, 3111 (1967)]
Pairing Criterion in Electron Mechanism for Superconductivity. (T) B. T. Geilikman. 9, 2651 (1968) [9, 3359 (1967)]
Experimental Observation of Electromagnetic Radiation from Sn–Pb, Pb–Pb and In–In Superconducting Tunnel Junctions. (E) I. M. Dmitrenko, I. K. Yanson, and I. I. Yurchenko. 9, 2889 (1968) [9, 3656 (1967)]

SURFACE PROPERTIES

Block Boundaries in Sodium Chloride Single Crystals Grown from the Melt. (E) L. G. Ėidel'man. 9, 9 (1967) [9, 13 (1967)]
States of Electrons Localized at Surface Charges. (T) B. V. Petukhov, V. L. Pokrovskii, and A. V. Chaplik. 9, 51 (1967) [9, 70 (1967)]
Adsorption of Lithium on Faces of a Tungsten Single Crystal Covered with an Adsorbed Oxygen Film. (E) V. M. Gavrilyuk and V. K. Medvedev. 9, 259 (1967) [9, 344 (1967)]
Theory of Surface Excitons in Molecular Crystals. (E) Yu. V. Konobeev. 9, 264 (1967) [9, 349 (1967)]
Excitation of Surface Electromagnetic Waves in Semiconductors. (T) S. I. Khankina and V. M. Yakovenko. 9, 443 (1967) [9, 578 (1967)]
Influence of Temperature on the Distribution of the Lengths of Correlated Collision Chains Occurring in Cascades during the Irradiation of Copper Crystals. (E) T. S. Pugacheva and I. Safarbaev. 9, 508 (1967) [9, 659 (1967)]
Investigation of the Process of Sorption of Oxygen on (100) and (110) Faces of a Tungsten Single Crystal Using the Electron-Stimulated Desorption Effect. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 623 (1967) [9, 797 (1967)]
Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavrilyuk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]
Possible Application of Surface Elastic Waves to the Investigation of the Surface Properties of Semiconductors. (T) A. A. Karpushin and S. K. Savvinykh. 9, 893 (1967) [9, 1141 (1967)]
Autoelectronic Emission from p-Silicon Cleaned with a Desorption Field. (E) G. N. Fursei and V. G. Ivanov. 9, 1421 (1967) [9, 1812 (1967)]
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. (E) V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. 9, 1503 (1968) [9, 1905 (1967)]
Field-Emission Study of the Adsorption of Sodium on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 1519 (1968) [9, 1927 (1967)]
Modulation of Light Absorption in Germanium at the Boundary with Electrolytes. (E) P. P. Konorov and S. V. Shchegolikhina. 9, 1661 (1968) [9, 2117 (1967)]
Importance of Waterproofing Glass for Its High-Strength State. (E/T) V. A. Bershtein and F. F. Vitman. 9, 1272 (1967) [9, 1618 (1967)]
Work Function of the Adsorption System Scandium–Tungsten. (E) V. B. Voronin. 9, 1758 (1968) [9, 2242 (1967)]
Generation of Dislocations on External and Internal Surfaces of Crystals. (T) L. G. Orlov. 9, 1836 (1968) [9, 2345 (1967)]
Mechanism and Kinetics of the Process of Sorption of Oxygen on the (111) Face of a Tungsten Single Crystal. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 1992 (1968) [9, 2529 (1967)]
Investigation of the Surface of Cadmium Selenide by the EPR Method. (E) Z. Z. Ditina and L. P. Strakhov. 9, 2000 (1968) [9, 2539 (1967)]
A New Method for the Electrical Decoration of the Surface of Solids. (E) G. I. Distler, T. Yu. Ts'ung-hsing, and E. M. Aleksandrova. 9, 2364 (1968) [9, 3000 (1967)]
Some Properties of the Structure of a Surface Layer on Lithium Fluoride Crystals after Annealing. (E) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 9, 2379 (1968) [9, 3016 (1967)]
Surface Properties of Silicon after Irradiation with Ions Having Moderate Energies. (E) P. V. Pavlov and Yu. S. Popov. 9, 2431 (1968) [9, 3082 (1967)]
Electric Domains in Corundum Plates and the Electric Effects Related to Formation of Laminar Filamentary Crystals. (E/T) V. N. Rozhanskii and G. V. Berezhkova. 9, 2465 (1968) [9, 3126 (1967)]
Mechanism of Electron-Stimulated Desorption of Oxygen from the Surface of Tungsten. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 2638 (1968) [9, 3347 (1967)]
Paramagnetic Centers in Silicon Powders. (E) N. A. Meshcheryakov, L. Ya. Al't, and V. F. Anufrienko. 9, 2667 (1968) [9, 3379 (1967)]
Treatment of the Energy Loss in the Electrostatic Model of Adsorption of a Film. (T) V. A. Kuznetsov, A. P. Ovchinnikov, and B. M. Tsarev. 9, 2881 (1968) [9, 3649 (1967)]

THERMAL PROPERTIES AND EFFECTS

Thermal Expansion of Naphthalene at Low Temperatures. (E) Yu. A. Kovalevskaya. 9, 258 (1967) [9, 344 (1967)]
Phase Diagram of a System of Solid Solutions $BiMnO_3$–$PbTiO_3$ Having Perovskite-Type Structure. (E) V. A. Bokov, N. A. Grigoryan, and M. F. Bryzhina. 9, 262 (1967) [9, 347 (1967)]
Internal Friction in Zirconium Dioxide at Temperatures in the Range 20–1250°C. (E) A. I. Kovalev and V. I. Pechenezhskii. 9, 278 (1967) [9, 363 (1967)]
Concerning the Effect of Thermal Defects on the Radiation Stability of Germanium. (E) T. V. Mashovets, S. M. Ryvkin, and R. Yu. Khansevarov. 9, 407 (1967) [9, 535 (1967)]
Investigation of the Moduli of Elasticity and Compressibility of Europium in the Temperature Range 70–295°K. (E) A. M. Burkanov, N. P. Grazhdankina, and I. G. Fakidov. 9, 586 (1967) [9, 748 (1967)]
Thermal Conductivity and Specific Heat of Yttrium-Calcium Garnets. (E) E. D. Devyatkova and V. V. Tikhonov. 9, 604 (1967) [9, 772 (1967)]
Temperature Dependence of Stimulated Emission from CdTe Excited by Electron Beam Injection. (E) V. S. Vavilov, É. L. Nolle, G. P. Golubev, V. S. Mashtakov, and E. I. Tsarapseva. 9, 657 (1967) [9, 842 (1967)]

Acoustothermal Effects in Solids. (T) Yu. V. Gulyaev and É. M. Epshtein. 9, 674 (1967) [9, 864 (1967)]
Reversible Structural Transitions in Glassy SiO_2 at Elevated Temperatures. (E) A. I. Soklakov and V. V. Nechaeva. 9, 715 (1967) [9, 921 (1967)]
Effect of Heat Treatment on the Structural Perfection of NaCl (Pb) Single Crystals Grown from Solution. (E) T. V. Kuskova, E. I. Raikhel'e, I. V. Smushkov, and T. V. Tyutyunnikova. 9, 718 (1967) [9, 926 (1967)]
Temperature Dependence of the Elastic Constants of Sodium Iodide. (E) B. K. Kardashev and S. P. Nikanorov. 9, 747 (1967) [9, 952 (1967)]
The Compressibility of Metals. (T) M. B. Gitis. 9, 924 (1967) [9, 1183 (1967)]
Thermally Stimulated Current Method under Photoelectret Conditions. (E) D. G. Semak, D. V. Chepur, and V. F. Zolotarev. 9, 966 (1967) [9, 1242 (1967)]
Local Levels in a Hexagonal Selenium Single Crystal. (E) M. Ya. Bakirov and N. Z. Dzhalilov. 9, 968 (1967) [9, 1244 (1967)]
Thermal Conductivity in a Two-Dimensional Lattice. (T) I. V. Kirillova, I. L. Korobova, and B. Ya. Moizhes. 9, 1003 (1967) [9, 1281 (1967)]
Temperature Dependence of the Peierls Stress in InSb, Ge, and Si. (E) F. L. Édel'man. 9, 1103 (1967) [9, 1414 (1967)]
Temperature Variation of the First Magnetic Anisotropy Constant in Lithium–Cobalt Ferrites. (E/T) M. A. Stel'mashenko. 9, 1137 (1967) [9, 1458 (1967)]
Thermal Expansion of Solidified Inert Gases. (E) V. G. Manzhelii, V. G. Gavrilko, and E. I. Voitovich. 9, 1157 (1967) [9, 1483 (1967)]
Change in Substructure of Lithium Fluoride Single Crystals during Isothermal Annealing. (E) E. I. Raikhel'e, I. V. Smushkov, and V. M. Trembach. 9, 1176 (1967) [9, 1505 (1967)]
Influence of the Deformation and Geometric Dimensions on the Thermal Conductivity of Sodium Chloride. (E) V. M. Zakharov. 9, 1183 (1967) [9, 1514 (1967)]
Thermal Conductivity of Potassium Chloride at Helium Temperatures. (E) V. M. Zakharov. 9, 1195 (1967) [9, 1526 (1967)]
Vacancy Formation and the Thermal Expansion of Platinum. (E) Ya. A. Kraftmakher. 9, 1197 (1967) [9, 1528 (1967)]
High-Temperature Internal Friction of Copper Whiskers. (E) V. S. Postnikov, A. T. Kosilov, and S. A. Ammer. 9, 1218 (1967) [9, 1647 (1967)]
Consideration of Partial Phonon Reflection from Boundaries in the Calculation of the Low-Temperature Thermal Conductivity of Dielectrics. (T) A. E. Kazakov and É. L. Nagaev. 9, 1255 (1967) [9, 1594 (1967)]
Investigation of Defects Generated during the Heat Treatment of Oxygen-Bearing Silicon. (E) I. L. Shul'pina, L. V. Lainer, M. G. Mil'vidskii, and E. P. Rashevskaya. 9, 1291 (1967) [9, 1641 (1967)]
Magnetoresonance Faraday Effect in the Antiferromagnets MnF_2 and $RbMnF_3$. (E) N. F. Kharchenko and V. V. Eremenko. 9, 1302 (1967) [9, 1655 (1967)]
Temperature Dependence of Ionic Charge Transport in Pure Silver. (E/T) M. D. Smolin. 9, 1415 (1967) [9, 1807 (1967)]
A Method for Observing Annealing of Defects in Crystals. (E) I. N. Evdokimov, E. S. Mashkova, and V. A. Molchanov. 9, 1434 (1967) [9, 1825 (1967)]
Thermal Conductivity of Additively Colored KCl Crystals. (E) D. N. Mirlin and I. A. Smirnov. 9, 1452 (1967) [9, 1843 (1967)]
Thermal Conductivity of NaF Single Crystals Containing K, Li, and Cl Impurities. (E) I. A. Smirnov. 9, 1454 (1967) [9, 1845 (1967)]
Structural Changes in an Aluminum–Germanium Solid Solution at the Stage of Decomposition Corresponding to Maximum Hardness. (E) L. M. Sorokin and A. A. Sitnikova. 9, 1525 (1968) [9, 1935 (1967)]
Influence of a Magnetic Field on the Thermal Conductivity of a Ferrodielectric at Low Temperatures. (T) V. N. Kashcheev and A. E. Shvets. 9, 1640 (1968) [9, 2091 (1967)]
Investigation of Electrical and Elastic Properties of Hexagonal Zinc Sulfide in the Temperature Range 1.5–300°K. (E) I. B. Kobyakov and G. S. Pado. 9, 1707 (1968) [9, 2173 (1967)]
Influence of Heat Treatment on the High-Strength State of Glass. (E) L. G. Batkova, F. F. Vitman, and V. P. Pukh. 9, 1716 (1968) [9, 2185 (1967)]
Thermal Conductivity of Amorphous Bodies, As Illustrated by Porcelain. (E) E. V. Shadrichev, I. A. Smirnov, and V. V. Tikhonov. 9, 1909 (1968) [9, 2435 (1967)]
Effect of Various Impurities on the Thermal Conductivity of the Germanium Lattice. (E) A. V. Ioffe. 9, 1914 (1968) [9, 2439 (1967)]
Low-Frequency Electrical Oscillations in Barium Titanate. (E) V. A. Servuli, E. V. Zarochentsev, and O. I. Prokopalo. 9, 1919 (1968) [9, 2444 (1967)]
Microhardness of Chromium near the Néel Point. (E) O. A. Nabutovskaya. 9, 1938 (1968) [9, 2452 (1967)]
Temperature Dependence of Dislocation Mobility in KBr Single Crystals. (E/T) V. B. Pariiskii and A. I. Tret'yak. 9, 1933 (1968) [9, 2457 (1967)]
Experimental Method for Determining Thermal Oscillations for Coherently Scattering Crystals. (E) B. A. Kotov, N. M. Okuneva, and A. L. Shakh-Budagov. 9, 2011 (1968) [9, 2553 (1967)]
Dielectric Polarization and Thermal Expansion of Polarized Ceramic Samples of the $PbTiO_3$–$PbZrO_3$–$PbMg_{0.5}W_{0.5}O_3$ System. (E) Yu. E. Stolypin and V. A. Isupov. 9, 2059 (1968) [9, 2619 (1967)]
Thermal Conductivity of Heavily Doped p-Type PbTe. (E) I. A. Smirnov, M. N. Vinogradova, N. V. Kolomoets, and L. M. Sysoeva. 9, 2074 (1968) [9, 2638 (1967)]
Thermal Equation of State of Solid Solutions. (T) Ya. A. Iosilevskii. 9, 2090 (1968) [9, 2661 (1967)]
Phonon Scattering by Distorted Lattices of Ionic Crystals Containing Nonstoichiometric Vacancies. (E/T) I. I. Vishnevskii and V. N. Skripak. 9, 2129 (1968) [9, 2713 (1967)]
Electrical Resistance of Chromium near the Néel Point. (E) E. B. Amitin and Yu. A. Kovalevskaya. 9, 2145 (1968) [9, 2731 (1967)]
Microspectrophotometric Investigation of the Thermal Stability of F Color Centers in NaCl, KCl, and KBr Crystals. (E) F. N. Zaitov and B. I. Sidlyarenko. 9, 2189 (1968) [9, 2785 (1967)]
Interaction of Point Defects with Dislocations in High-Purity Quenched Aluminum. (E) I. A. Gindin, I. M. Neklyudov, and I. I. Bobonets. 9, 2333 (1968) [9, 2969 (1967)]
Behavior of the Fundamental Absorption Edge of Ferroelectric Hydroselenites in the Vicinity of Phase Transitions. (E) N. R. Ivanov and K. A. Verkhovskaya. 9, 2337 (1968) [9, 2974 (1967)]
Effect of Interband Interaction of Light and Heavy Holes on the Lorentz Number in Doped p-PbTe Single Crystals in the High- and Low-Temperature Regions. (E) M. N. Vinogradova, N. V. Kolomoets, I. A. Smirnov, and L. M. Sysoeva. 9, 2368 (1968) [9, 3004 (1967)]
Some Properties of the Structure of a Surface Layer on Lithium Fluoride Cyrstals after Annealing. (E) T. V. Kuskova, E. I. Rakhel'e, and I. V. Smushkov. 9, 2379 (1968) [9, 3016 (1967)]
Electron-Microscope Observation of Dislocation Motion in Silicon under the Influence of an Electron Beam. (E) M. M. Myshlyaev, V. I. Nikitenko, and V. G. Eremenko. 9, 2427 (1968) [9, 3077 (1967)]
Thermal Ionization Mechanism for F Centers in Alkali-Halide Crystal Phosphors. (T/E) F. N. Zaitov and E. S. Dudarev. 9, 2435 (1968) [9, 3087 (1967)]
The Mechanism of Decomposition of the Supersaturated Solid Solution of Arsenic in Germanium. (E) I. P. Arsent'eva, S. S. Gorelik, Yu. M. Litvinov, and V. N. Rozhanskii. 9, 2448 (1968) [9, 3104 (1967)]
Thermal Properties of Superconductors with a Strong Electron-Phonon Interaction. (T/E) B. T. Geilikman and V. Z. Kresin. 9, 2453 (1968) [9, 3111 (1967)]

Excess Current in Tunnel Diodes. (E) B. M. Vul, É. I. Zavaritskaya, and N. V. Zavaritskii. 9, 2530 (1968) [9, 3212 (1967)]
Investigation of Antiferroelectrics at Millimeter Wavelengths. (E) Yu. M. Poplavko and V. G. Tsykalov. 9, 2600 (1968) [9, 3305 (1967)]
Temperature Characteristics of Varikonds in the 3 cm Range of Wavelengths. (E) T. N. Verbitskaya, Yu. M. Poplavko, and B. Ya. Yazytskii. 9, 2634 (1968) [9, 3344 (1967)]
Extension of the Applicability Limit of the Theory of Low Mobility. (T) I. E. Lang and Yu. A. Firsov. 9, 2701 (1968) [9, 3422 (1967)]
Thermal EMF of a Semiconductor in a Strong Electric Field. (T) L. É. Gurevich and T. M. Gasymov. 9, 2752 (1968) [9, 3493 (1967)]
Influence of Anion Vacancies on the Lattice Thermal Conductivity of Coordination Crystals Having the Spinel Structure at Low Temperature. (E) I. I. Vishnevskii and V. N. Skripak. 9, 2865 (1968) [9, 3633 (1967)]
Influence of Heat Treatment and Irradiation on the Luminescence of Natural Diamond. (E) N. N. Gerasimenko, V. E. Il'in, L. V. Lezheiko, L. S. Smirnov, E. V. Sobolev, and O. P. Yur'eva. 9, 2898 (1968) [9, 3665 (1967)]

THERMODYNAMICS AND STATISTICAL MECHANICS

Calculation of the Binding Energy of Ionic Crystals Using a Model Potential. (T) Yu. A. Logachev and I. V. Abarenkov. 9, 6 (1967) [9, 10 (1967)]
Effect of Thermal Vibrations on the Propagation of Chains of Atom-Atom Collisions in Crystals. (T) T. S. Pugacheva. 9, 75 (1967) [9, 102 (1967)]
Analysis of Conditions for Phonon "Heating" in Paramagnetic Crystals. (E/T) V. A. Milyaev. 9, 117 (1967) [9, 157 (1967)]
Dynamics of Diatomic Crystals and Simple Layer Structures. (T) Ya. A. Iosilevskii. 9, 159 (1967) [9, 215 (1967)]
Possibility of Measuring the Thermal Vibration Spectrum g(ω) Using Coherent Inelastic Neutron Scattering from a Polycrystalline Sample. (T/E) M. M. Bredov, B. A. Kotov, N. M. Okuneva, V. S. Oskotskii, and A. L. Shakh-Budagov. 9, 214 (1967) [9, 287 (1967)]
Calculation of the Characteristic Temperature of Organic Crystals from Elastic Constants. (E) K. S. Aleksandrov, V. F. Teslenko, and B. D. Koreshkov. 9, 579 (1967) [9, 739 (1967)]
Relaxation of Effective Temperature of Current Carriers in Semiconductors. (T) M. V. Kvimsadze. 9, 682 (1967) [9, 875 (1967)]
Influence of the Multiplet Structure of Sm^{2+} on the Specific Heat of Samarium Monochalcogenides. (E) A. V. Golubkov and V. V. Tikhonov. 9, 750 (1967) [9, 954 (1967)]
Binding Energy of Cs Atoms Adsorbed on (110) and (100) Faces of a Tungsten Crystal. (E) V. M. Gavrilyuk, Yu. S. Vedula, A. G. Naumovets, and A. G. Fedorus. 9, 881 (1967) [9, 1126 (1967)]
Effect of Thermodynamic Fluctuations of the Magnetization on the Ferromagnetic Resonance Line Width. (E) Yu. M. Yakovlev and Yu. R. Shil'nikov. 9, 920 (1967) [9, 1178 (1967)]
Determination of the Work Function and Blackbody Coefficient of Boron and Silicon by the Intrinsic Thermometer Method. (E) É. I. Adirovich and L. M. Gol'dshtein. 9, 984 (1967) [9, 1258 (1967)]
Spin-Lattice Relaxation of Trigonal Er^{3+} Centers in BaF_2 and SrF_2 Single Crystals. (E) A. A. Antipin, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 1070 (1967) [9, 1370 (1967)]
Low-Temperature Phase Transition in Tin Telluride. (E) S. I. Novikova and L. E. Shelimova. 9, 1046 (1967) [9, 1336 (1967)]
Temperature Dependence of the Peierls Stress in InSb, Ge, and Si. (E) F. L. Édel'man. 9, 1103 (1967) [9, 1414 (1967)]
A Study of the State of Iron Ions in Silver Halides Using the Mössbauer Effect. (E) A. N. Murin, B. G. Lur'e, and P. P. Seregin. 9, 1110 (1967) [9, 1424 (1967)]
A Quasiclassical Estimate of the Cross Section for Multiphonon Trapping in the Non-Condon Approximation for the Deformation Interaction. (T) É. P. Sinyavskii and V. A. Kovarskii. 9, 1142 (1967) [9, 1464 (1967)]
Oscillations of the Phonon Radiation Power in a Quantizing Magnetic Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 1150 (1967) [9, 1473 (1967)]
Change in the Nature of the Phase Transition in Barium Titanate Single Crystals under Hydrostatic Pressure. (E) I. N. Polandov, B. A. Strukov, and V. P. Myiov. 9, 1153 (1967) [9, 1477 (1967)]
Absorption of Light in the Presence of Polarons. (T) E. M. Kuznetsova. 9, 1166 (1967) [9, 1493 (1967)]
Effects of CdTe, Te, and Cd Condensation Rates on the Critical Temperatures and Phase Content of Thin Films. (E) K. V. Shalimova and É. N. Voronkov. 9, 1169 (1967) [9, 1497 (1967)]
Penetration of Hydrogen Ions into Copper. (E) E. M. Zarutskii. 9, 1172 (1967) [9, 1500 (1967)]
Heating of Carriers in Cyclotron and Combined Resonances. (T) G. E. Gurgenishvili and G. R. Khutsishvili. 9, 1193 (1967) [9, 1523 (1967)]
Electrical Conductivity of Nickel Close to the Curie Point. (E) Ya. A. Kraftmakher. 9, 1199 (1967) [9, 1529 (1967)]
Thermal Hysteresis of the Phase Transformation in SbSI. (E) V. P. Grigas, I. P. Grigas, and R. P. Belyatskas. 9, 1203 (1967) [9, 1532 (1967)]
Density Distribution in a Crystal. (T) V. A. Golovko. 9, 1210 (1967) [9, 1538 (1967)]
Quantum-Mechanical Theory of Direct Nuclear Magnetic Relaxation. (T) Sh. F. Murtazin. 9, 1222 (1967) [9, 1552 (1967)]
Vibrational Instability of Impurity Centers and Nonsymmetric Distortions of the Lattice. (T) N. N. Kristofel' and G. S. Zavt. 9, 1246 (1967) [9, 1582 (1967)]
Influence of the Crystal Field on Angular $\gamma-\gamma$-Correlation in Paramagnets. (T) F. P. Khaimovich. 9, 1261 (1967) [9, 1603 (1967)]
Influence of Thermal Oscillations on Electron Scattering in the Dynamical Theory Approximation. (T) L. B. Kvashnina, V. B. Molodkin, and E. A. Tikhonova. 9, 1306 (1967) [9, 1660 (1967)]
Capture of Holes by Tl^+ Centers in KI:Tl. (E) R. A. Kink and G. G. Liid'ya. 9, 1316 (1967) [9, 1674 (1967)]
Diffusion and Electrolytic Migration of Cadmium Ions in Mixed $AgCl + CdCl_2$ Crystals. (E) B. G. Lur'e, A. N. Murin, and I. V. Murin. 9, 1337 (1967) [9, 1702 (1967)]
Zener Relaxation Effect in Cu–Zn–Al Ternary Alloys. (E) K. M. Shtrakhman. 9, 1360 (1967) [9, 1732 (1967)]
A Lattice-Dynamical Investigation of the Hydrides CeH_2, CeH_3, ThH_2, and UH_3 Using Inelastic Scattering of Cold Neutrons. (E) I. Karimov, M. G. Zemlyanov, M. E. Kost, V. A. Somenkov, and N. A. Chernoplekov. 9, 1366 (1967) [9, 1740 (1967)]
Inelastic Scattering of Medium-Energy Electrons in the Continuous-Energy-Loss Approximation. (T/E) A. A. Ostroukhov. 9, 1369 (1967) [9, 1744 (1967)]
Effect of Localized States on the Damping of Elastic Waves in Crystals. (T) M. A. Ivanov and M. A. Krivoglaz. 9, 1388 (1967) [9, 1771 (1967)]
The Spin-Phonon Interaction of Electrons and the Oscillations of the Longitudinal Magnetoresistance in Semiconductors. (T) S. T. Pavlov and Yu. A. Firsov. 9, 1394 (1967) [9, 1780 (1967)]
Splitting of the Energy Levels of the Er^{3+} Ion in the Crystal Field of Strontium Molybdate. (E) Yu. A. Bobrovnikov, G. M. Zverev and A. I. Smirnov. 9, 1403 (1967) [9, 1794 (1967)]
Vacancy Formation in Copper. (E) Ya. A. Kraftmakher. 9, 1458 (1967) [9, 1850 (1967)]
Electrical Conductivity of Iron near the Curie Point. (E) Ya. A. Kraftmakher and T. Yu. Romashina. 9, 1459 (1967) [9, 1851 (1967)]
Energy Spectrum of Alkali Metal Ions Transmitted by Thin Copper Films. (E) E. M. Zarutskii. 9, 1495 (1968) [9, 1896 (1967)]
Work Function of Faces of a Rhenium Single Crystal in Vacuum and in a Stream of Cesium Atoms. (E) A. P. Ovchinnikov. 9, 1508 (1968) [9, 1911 (1967)]

Field-Emission Study of the Adsorption of Sodium on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 1519 (1968) [9, 1927 (1967)]

Positron Annihilation in Metals. (T) V. L. Sedov. 9, 1540 (1968) [9, 1957 (1967)]

Theory of Spin-Lattice Relaxation of Impurity Centers. (T) L. L. Buishvili and M. D. Zviadadze. 9, 1549 (1968) [9, 1969 (1967)]

Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. (T) G. M. Nedlin and R. Kh. Shapiro. 9, 1560 (1968) [9, 1983 (1967)]

Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. (T) I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov. 9, 1566 (1968) [9, 1991 (1967)]

Structure of the Electronic Energy Spectrum in Nonpolar Liquids. (T) R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko. 9, 1578 (1968) [9, 2007 (1967)]

Crystal Field Parameters of Trigonal Er^{3+} Centers in CaF_2 Crystals. (E/T) G. M. Zverev and A. I. Smirnov. 9, 1586 (1968) [9, 2019 (1967)]

Magnetoelastic Interaction in Antiferromagnets. (T) V. G. Bar'yakhtar and V. V. Gann. 9, 1611 (1968) [9, 2052 (1967)]

Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). (E/T) V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov. 9, 1630 (1968) [9, 2077 (1967)]

Inelastic Reflection of Plasma Waves from a Metal Boundary. (T) M. A. Mekhtiev. 9, 1645 (1968) [9, 2098 (1967)]

Ising Lattice at Negative Absolute Temperatures. (E) I. M. Ratner. 9, 1652 (1968) [9, 2107 (1967)]

Investigation of the Characteristic Temperature of a Molecular Crystal. Tensor Derivatives of the Characteristic Temperature. (E) B. D. Koreshkov and A. I. Kitaigorodskii. 9, 1680 (1968) [9, 2137 (1967)]

Scattering of High-Energy Particles Incident on a Solid at an Angle Close to $\pi/2$. (T) O. B. Firsov. 9, 1687 (1968) [9, 2145 (1967)]

Theory of Kinetic Oscillations in Semiconductors. (T) P. M. Karageorgii-Alkalaev and A. Yu. Leiderman. 9, 1691 (1968) [9, 2151 (1967)]

A Method for Constructing the Nonequilibrium Density Matrix in the Presence of an External Alternating Field. (T) L. L. Buishvili. 9, 1695 (1968) [9, 2157 (1967)]

Paramagnetic Resonance Spectrum in the Presence of a Strong Electron-Phonon Interaction. (T) B. I. Kochelaev. 9, 1712 (1968) [9, 2180 (1967)]

Effect of Force Constant Changes on the Properties of Crystals Containing Impurity Atoms. (T) A. P. Zhernov and G. R. Augst. 9, 1724 (1968) [9, 2196 (1967)]

Deceleration of Slow Hydrogen and Deuterium Ions in a Thin Silver Foil. (E) Yu. V. Gott and V. G. Tel'kovskii. 9, 1741 (1968) [9, 2221 (1967)]

Work Function of the Adsorption System Scandium-Tungsten. (E) V. B. Voronin. 9, 1758 (1968) [9, 2242 (1967)]

Heating of the Crystal Lattice during Paramagnetic Relaxation in Gadolinium Hexaantipyrinate. (E) V. A. Atsarkin and R. N. Shchelokov. 9, 1766 (1968) [9, 2252 (1967)]

Electrical Fluctuations in a Solid-State Plasma in a Strong Electric Field. (T) Sh. M. Kogan and A. Ya. Shul'man. 9, 1771 (1968) [9, 2259 (1967)]

An Operational Definition of Spin Temperature. (T) V. N. Tropinin. 9, 1803 (1968) [9, 2302 (1967)]

State of Vanadium Ions in Garnet Ferrites. (T/E) A. P. Nikol'skii. V. Ya. Dubossarskaya, and S. S. Gorelik. 9, 1809 (1968) [9, 2311 (1967)]

Investigation of $Ba(TiSn)O_3$ Ferroelectric Ceramics at High Pressures. (E) I. N. Polandov and V. P. Mylov. 9, 1816 (1968) [9, 2319 (1967)]

Polarization of Spins by Hot Electrons in a Quantizing Magnetic Field. (T/E) A. K. Zvezdin. 9, 1843 (1968) [9, 2354 (1967)]

Determination of the Zero-Slope Point. (T) N. V. Kudryavtseva. 9, 1850 (1968) [9, 2364 (1967)]

Line Shape for the Characteristic Energy Losses of Electrons in Solids. (T) V. V. Rumyantsev. 9, 1860 (1968) [9, 2377 (1967)]

Spin-Lattice Relaxation in a Solid Containing Localized Defects. (T) V. P. Sakun. 9, 1880 (1968) [9, 2404 (1967)]

Scattering of Phonons at Point Defects in the Solid Solutions $PbTe_xSe_{1-x}$ and Ge_xSi_{1-x}. (E/T) V. A. Saakyan. 9, 1885 (1968) [9, 2411 (1967)]

Statistics of Indirect Exchange in Calcium-Vanadium Garnets. (E) V. P. Plakhtii. 9, 1889 (1968) [9, 2416 (1967)]

Specific Heat and Permittivity of a Potassium Dideuterophosphate Crystal in the Vicinity of the Ferroelectric Curie Point. (E) B. A. Strukov, M. Amin, and A. S. Sonin. 9, 1894 (1968) [9, 2421 (1967)]

Thermal Conductivity of Amorphous Bodies, As Illustrated by Porcelain. (E) E. V. Shadrichev, I. A. Smirnov, and V. V. Tikhonov. 9, 1909 (1968) [9, 2435 (1967)]

Anomalous Properties of Conduction Electrons near the Curie Point. (T) É. L. Nagaev. 9, 1942 (1968) [9, 2469 (1967)]

Longitudinal Relaxation of Electric Dipoles in Crystals. (T) R. V. Saburova. 9, 1949 (1968) [9, 2478 (1967)]

Mechanical Properties of Solid Para-Hydrogen at 4.2°K. (E) D. N. Bol'shutkin, Yu. E. Stetsenko, and Z. N. Linnik. 9, 1952 (1968) [9, 2482 (1967)]

Adsorption and Electron Emission of Molybdenum Films on a Tungsten Single Crystal. (E) V. A. Kuznetsov and B. M. Tsarev. 9, 1987 (1968) [9, 2524 (1967)]

Mechanism and Kinetics of the Process of Sorption of Oxygen on the (111) Face of a Tungsten Single Crystal. (E) Ya. P. Zingerman and V. A. Ishchuk. 9, 1992 (1968) [9, 2529 (1967)]

Determination of the Size of Regions of Concentration Inhomogeneity in Certain Single-Phase Silver-Base Alloys from Measurements of the Zener Relaxation. (E) K. M. Shtrakhman and Yu. V. Pigusov. 9, 2034 (1968) [9, 2586 (1967)]

Thermal Equation of State of Solid Solutions. (T) Ya. A. Iosilevskii. 9, 2090 (1968) [9, 2661 (1967)]

Resonant Frequencies in a Two-Sublattice Uniaxial Ferrite in the Noncollinear Phase. (T) B. I. Kuliev and G. M. Nedlin. 9, 2102 (1968) [9, 2678 (1967)]

Adsorption and Electron Emission of Cesium Films on Iridium. (E) N. D. Konovalov and V. I. Makukha. 9, 2108 (1968) [9, 2686 (1967)]

Theory of Light Absorption and Emission by Impurity Centers in Paramagnetic Crystals. (T) M. A. Krivoglaz and G. F. Levenson. 9, 2114 (1968) [9, 2693 (1967)]

Ground-State Energy of a Bound Polaron. (T/E) Yu. E. Perlin and Sh. N. Gifeisman. 9, 2165 (1968) [9, 2752 (1967)]

Monomolecular Semiconductor Layers on Metals. (T) L. N. Dobretsov. 9, 2177 (1968) [9, 2769 (1967)]

Criteria of the Optical Strength of Transparent Dielectrics. (T/E) V. I. Vladimirov. 9, 2204 (1968) [9, 2804 (1967)]

The Nature of the Metastable States in the Aging of AlZn. (E) A. M. Elistratov, G. V. Kleshchev, A. I. Sheinkman, D. V. Shumilov, and V. A. Toldin. 9, 2209 (1968) [9, 2811 (1967)]

Saturation Magnetization and Néel Temperature of Dilute Ferrite Solid Solutions. (T/E) V. P. Polyakov. 9, 2224 (1968) [9, 2830 (1967)]

Sputtering of Metal Carbides with Cd^+ Ions Having Energies Up to 500 eV. (E) T. P. Martynenko. 9, 2232 (1968) [9, 2839 (1967)]

Theoretical Analysis of the Interaction Energy of Interstital Atoms in Connection with Elastic Deformations of the Crystal Lattice. (T) A. G. Khachaturyan. 9, 2249 (1967) [9, 2861 (1967)]

Effect of Optical-Phonon Heating on the Mangetophonon Resonance in a Strong Electric Field. (T) R. V. Pomortsev and G. I. Kharus. 9, 2256 (1968) [9, 2870 (1967)]

Investigation of the Anomalous Dispersion of the Permittivity of Sb_2S_3 and SbSI Crystals at Microwave Frequencies. (E) I. P. Grigas and A. S. Karpus. 9, 2270 (1968) [9, 2887 (1967)]

Effect of the Exchange Interaction of Magnetic Ions on the Intensities of Mössbauer Spectra. (T) Sh. Sh. Bashkirov and G. Ya. Selyutin. 9, 2284 (1968) [9, 2904 (1967)]

Displacement of Atoms by a Cascade of Fast Electrons. (T) V. M. Lanchenko and É. Chadaev. 9, 2310 (1968) [9, 2939 (1967)]
Behavior of the Fundamental Absorption Edge of Ferroelectric Hydroselenites in the Vicinity of Phase Transitions. (E) N. R. Ivanov and K. A. Verkhovskaya. 9, 2337 (1968) [9, 2974 (1967)]
Calculation of the Influence of the Substrate Roughness on the Work Function of Evaporated Films. (E) E. A. Tishin and B. M. Tsarev. 9, 2352 (1968) [9, 2990 (1967)]
Theory of Acoustic Plasma Waves in Bismuth. (T) O. V. Konstantinov and V. I. Perel'. 9, 2409 (1968) [9, 3051 (1967)]
Theoretical Determination of the Stacking-Fault Energy in Nontransition Metals. (T) G. L. Krasko, V. N. Teliyants, R. T. Pozvonkova, and Yu. I. Zaslavskii. 9, 2414 (1968) [9, 3059 (1967)]
Insulator–Metal Phase Transitions in Antiferromagnets. (T) L. N. Bulaevskii and D. I. Khomskii. 9, 2422 (1968) [9, 3070 (1967)]
Thermal Ionization Mechanism for F Centers in Alkali-Halide Crystal Phosphors. (T/E) F. N. Zaitov and E. S. Dudarev. 9, 2435 (1968) [9, 3087 (1967)]
Influence of the Long-Range Dipole-Dipole Forces on the Attenuation and Velocity of Ultrasound in Ferroelectrics near the Second-Order Transition Point. (T) S. Ya. Geguzina and M. A. Krivoglaz. 9, 2441 (1968) [9, 3095 (1967)]
Thermal Properties of Superconductors with a Strong Electron-Phonon Interaction. (T/E) B. T. Geilikman and V. Z. Kresin. 9, 2453 (1968) [9, 3111 (1967)]
Thermodynamic Model for Dissolution of Impurities and Deviations from Stoichiometry in Crystals Having Stoichiometric Vacancies. (T) V. M. Koshkin, Yu. A. Freiman, and L. V. Atroshchenko. 9, 2460 (1968) [9, 3120 (1967)]
Study of the Magnetic Properties of a System of $BiMnO_3$–$CaMnO_3$ Solid Solutions in a Pulsed Magnetic Field of 160 kOe. (E) A. T. Starovoitov. 9, 2472 (1968) [9, 3136 (1967)]
A Method for Determining the Conduction Band Structure and the Effective Mass of Electrons in Crystals from Electron-Nuclear Double Resonance Data. (T/E) V. G. Grachev, M. F. Deigen, and S. I. Pekar. 9, 2489 (1968) [9, 3157 (1967)]
Polaron Nature of the Current Carriers in Rutile (TiO_2). (T) V. N. Bogomolov, E. K. Kudinov, and Yu. A. Firsov. 9, 2502 (1968) [9, 3175 (1967)]
Vacancy Concentration Variation in KBr Crystals during Electrolytic Coloration. (E) G. A. Andreev, G. B. Semushkin, and A. N. Tsikin. 9, 2564 (1968) [9, 3257 (1967)]
Spatial Oscillations of Spin Density and Nuclear Magnetic Resonance in $RbCoF_3$. (T) M. P. Petrov and G. M. Nedlin. 9, 2556 (1968) [9, 3246 (1967)]
Antiferromagnets in Strong Magnetic Fields. (T/E) M. A. Savchenko and V. V. Tarasenko. 9, 2584 (1968) [9, 3284 (1967)]
Theory of the Acoustoelectric Effect. (T) V. D. Kagan. 9, 2591 (1968) [9, 3293 (1967)]
Contribution to the Theory on Dielectric Permeability of Rutile. (E) L. B. Meisner. 9, 2604 (1968) [9, 3311 (1967)]
Spin Lattice Relaxation in BaF_2, SrF_2, and CaF_2 Single Crystals. (T/E) A. A. Antipin, A. N. Kamyshev, I. N. Kurkin, and L. Ya. Shekun. 9, 2684 (1968) [9, 3400 (1967)]
Determination of the Thermodynamic Characteristics of Solid Solutions from Short-Range Order Parameters. (T/E) S. V. Semenovskaya. 9, 2690 (1968) [9, 3408 (1967)]
Extension of the Applicability Limit of the Theory of Low Mobility. (T) I. E. Lang and Yu. A. Firsov. 9, 2701 (1968) 9, 3422 (1967)]
Coupled Magnetoelastic Waves in Antiferromagnets. (T) V. V. Gann. 9, 2734 (1968) [9, 3467 (1967)]
Polymorphic Transitions Caused by Crushing of Zinc Sulfide Phosphor Crystals and the Influence of These Transitions on Luminescence Properties. (E) E. A. Poplavskaya, G. G. Kharin, and A. E. Bryukhanov. 9, 2757 (1968) [9, 3501 (1967)]
Application of Schwinger's Variational Principle to the Calculation of Kinetic Coefficients. (T) P. A. Kazlauskas and I. B. Levinson. 9, 2760 (1968) [9, 3504 (1967)]
Field Emission of Lithium Films on Faces of Tungsten and Rhenium Single Crystals. (E) A. P. Ovchinnikov and B. M. Tsarev. 9, 2766 (1968) [9, 3512 (1967)]
Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2742 (1968) [9, 3479 (1967)]
Theory of the Photomagnetic Effect on Heated Electrons. (T) B. I. Lyagushchenko and I. N. Yassievich. 9, 2794 (1968) [9, 3547 (1967)]
Excitation Density Distribution for Internal Secondary Electrons in Cesium Iodide for Medium-Energy Primary Electrons (E) M. V. Gomoyunova. 9, 2802 (1968) [9, 3559 (1967)]
Galvanomagnetic Effects in Antimony and the Pressure Dependence of the Energy Spectrum. (T/E) V. V. Kechin. 9, 2828 (1968) [9, 3595 (1967)]
Treatment of the Energy Loss in the Electrostatic Model of Adsorption of a Film. (T) V. A. Kuznetsov, A. P. Ovchinnikov, and B. M. Tsarev. 9, 2881 (1968) [9, 3649 (1967)]
Specific Heat of Tungsten-Rhenium Alloy VR-20 in the 1600–2900°K Range. (E) K. S. Sukhovei. 9, 2893 (1968) [9, 3660 (1967)]
Inelastic Energy Loss of Ions in Channels in Crystalline Materials. (T) Yu. V. Martynenko. 9, 2879 (1968) [9, 3646 (1967)]
Polarization of Light in Ferroelectric SbSI near Phase Transition. (E) T. S. Travina, L. L. Golik, E. I. Gerzanich, I. I. Groshik, M. I. Elinson, P. V. Ionov, V. A. Lyakhovitskaya, and V. M. Fridkin. 9, 2896 (1968) [9, 3664 (1967)]
Study of the Low-Temperature Specific Heat of Cobalt Chromite. (E) A. S. Shibanov and N. A. Smol'kov. 9, 2910 (1968) [9, 3676 (1967)]

THERMOELECTRIC PROPERTIES AND EFFECTS

Semiconductor Properties of Single Crystals of Nickel Oxide. (E/T) Ya. M. Ksendzov, B. K. Avdeenko, and V. V. Maksarov. 9, 828 (1967) [9, 1058 (1967)]
Theory of Kinetic Phenomena in Semiconductors Having a Small Mobility. (T) A. L. Éfros. 9, 901 (1967) [9, 1152 (1967)]
Indirect Interaction of Electrons and Holes through Phonons and Its Effect on the Kinetic Properties of Semimetals. (T) L. É. Gurevich and I. Ya. Korenblit. 9, 932 (1967) [9, 1195 (1967)]
Peltier Coefficient for a Boundary Separating Solid and Liquid Phases of Tin- and Tellurium-Doped Bismuth. (E) G. V. Komarov and A. R. Regel'. 9, 2384 (1968) [9, 3021 (1967)]
Relationship between Transport Coefficients in a Strong Magnetic Field. (T) A. L. Éfros. 9, 2394 (1968) [9, 3031 (1967)]
Electrical Properties of Cerium Dioxide Single Crystals. (E) I. V. Vinokurov, Z. N. Zonn, and V. A. Ioffe. 9, 2659 (1968) [9, 3369 (1967)]
Thermal EMF of a Semiconductor in a Strong Electric Field. (T) L. É Gurevich and T. M. Gasymov. 9, 2752 (1968) [9, 3493 (1967)]
Electrical Conductivity and Thermoelectric Power of Molten Ag_2S Containing Excess Sulfur. (E) I. N. Vechko, A. V. Ditman, and A. R. Regel'. 9, 2902 (1968) [9, 3669 (1967)]

THERMOMAGNETIC PHENOMENA

Influence of Thermomagnetic Treatment on the Processes of Magnetization of Cobalt Ferrite Powders. (E) Ya. S. Shur, O. A. Ivanov, and E. V. Shtol'ts. 9, 30 (1967) [9, 42 (1967)]
Indirect Interaction of Electrons and Holes through Phonons and Its Effect on the Kinetic Properties of Semimetals. (T) L. É. Gurevich and I. Ya. Korenblit. 9, 932 (1967) [9, 1195 (1967)]
Galvanomagnetic and Thermomagnetic Size Effects in a Hot Electron Gas. (T) F. G. Bass, V. S. Bochkov, and Yu. G. Gurevich. 9, 2742 (1968) [9, 3479 (1967)]

X RAYS
Relationship between the Ranges of Fast and Slow Electrons in Alkali-Halide Compounds. (E) L. G. Eliseenko, V. N. Shchemelev, and M. A. Rumsh. 9, 128 (1967) [9, 171 (1967)]
Formation of Structure Defects during Low-Temperature Irradiation of Indium Antimonide with X Rays. (E) B. Chelustka, R. Yu. Khansevarov, T. V. Mashovets, and I. R. Kozlova. 9, 253 (1967) [9, 336 (1967)]
X-Ray Emission Spectrum Investigation of the Electron Structure of Elements in the Second Large Period. (E) V. V. Nemoshkalenko and V. P. Krivitskii. 9, 288 (1968) [9, 353 (1967)]
Basic Equations of the Dynamical Theory of X-Ray Scattering for Imperfect Crystals. (T) E. A. Tikhonova. 9, 394 (1967) [9, 516 (1967)]
Study of X-Ray K Spectra of Titanium in Its nitride and Carbide. (E) V. I. Chirkov, S. M. Blokhin, and É. E. Vainshtein. 9, 873 (1967) [9, 1116 (1967)]
Anomalies in the Character of the X-Ray Absorption of Rare-Earth Elements of the Lanthanide Group. (E) T. M. Zimkina, V. A. Fomichev, S. A. Gribovskii, and I. I. Zhukova. 9, 1128 (1967) [9, 1447 (1967)]
X-Ray Determination of Dispersion Curves of the Ionic Crystals KCl and KI. (E) V. I. Iveronova, Parangtopo, and A. P. Zvyagina. 9, 1265 (1967) [9, 1609 (1967)]
X-Ray Satellites of Silicon. (E) V. A. Fomichev and T. M. Zimkina. 9, 1441 (1967) [9, 1833 (1967)]
Formation of Submicroscopic Cracks in Loaded Oriented Amorphous-Crystalline Polymers. (E) V. S. Kuksenko, A. I. Slutsker, and A. A. Yastrebinskii. 9, 1869 (1968) [9, 2390 (1967)]
Microscopic Theory of Diffusion in Crystalline Solid Solutions and the Time Evolution of the Diffuse Scattering of X Rays and Thermal Neutrons. (T) A. G. Khachaturyan. 9, 2040 (1968) [9, 2594 (1967)]
Investigation of the Energy Structure of Red Phosphorus by Ultra-Soft X-Ray Spectroscopy. (E) V. A. Fomichev. 9, 2398 (1968) [9, 3034 (1967)]
The X-Ray Spectra of Boron and Its Compounds. (T/E) V. A. Fomichev. 9, 2496 (1968) [9, 3167 (1967)]
Investigation of $\alpha \rightleftarrows \beta$ Transition in GeTe–SnTe Alloys at High Pressures. (E) S. S. Kabalkina, N. R. Serebryanaya, and L. F. Vereshchagin. 9, 2527 (1968) [9, 3208 (1967)]
Penetration of Electrons with Moderate Energies into a Solid. (T/E) L. A. Smirnov and M. A. Rumsh. 9, 2653 (1968) [9, 3361 (1967)]
Determination of the Thermodynamic Characteristics of Solid Solutions from Short-Range Order Parameters. (T/E) S. V. Semenovskaya. 9, 2690 (1968) [9, 3408 (1967)]
A New Method for Precision Determination of Interplanar Spacings from Patterns Taken in a Divergent Beam of X Rays. (E/T) V. V. Lider and V. N. Roshanskii. 9, 2787 (1968) [9, 3539 (1967)]